

ATTACHMENT C
CORRECTIVE ACTION PLAN AND WELL DATA

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ATTACHMENTS

7520-14 Forms

1. INTRODUCTION

This Attachment was prepared in support of Excelsior Mining Arizona, Inc.'s (Excelsior's) Underground Injection Control (UIC) Permit application to the United States Environmental Protection Agency (USEPA). Excelsior is applying for an area Class III UIC permit to install a wellfield for in-situ recovery (ISR) of copper at the Gunnison Copper Project (Project), located in Cochise County, Arizona.

Attachment C *Corrective Action Plan and Well Data* was prepared in support of Excelsior's UIC Permit application. This attachment identifies existing wells within the Area of Review (AOR) in accordance with the UIC Application Instructions (EPA Form 7520-6). According to Chapter 40 of the Code of Federal Regulations (CFR) §144.55, the applicant

“shall identify the location of all known wells within the injection well's area of review which penetrate the injection zone. For such wells which are improperly sealed, completed, or abandoned, the applicant shall also submit a plan consisting of such steps or modifications as are necessary to prevent movement of fluid into underground sources of drinking water (“corrective action”).

2. WELLS WITHIN THE AREA OF REVIEW

Well data were compiled for wells inside the AOR. Well information was compiled from the Arizona Department of Water Resources (ADWR) Well Registry Database and from data provided to Clear Creek by Excelsior. The most recent version of the ADWR Well Registry Database was downloaded from the ADWR website on July 15, 2015. The database was last updated in January 2015 according to the website.

There are 99 known borings within the AOR, 11 of which have been plugged and abandoned. Of the remaining 88 wells, one is classified as non-exempt by ADWR. The remaining wells are generally considered piezometer-monitor wells, although many of them were initially installed as exploration boreholes. Available information for each of the boring/well is included in Table C-1. Locations provided by Excelsior are shown on Figure C-1.

Plugging and Abandonment Plan forms (From 7520-14) for each well are provided in this Attachment¹. Excelsior will provide signed copies prior to the actual abandonment after they are able to investigate the well construction.

¹ Estimated costs are based on the total depth and diameter of the borings. For the estimated cost of abandonment of the NSH wells, we used the average cost of \$14,420 to agree with closure costs in Attachment R-3.

3. CORRECTIVE ACTION PLAN

Excelsior will plug and abandon existing wells within each mine block prior to beginning injection and recovery in that mine block. This corrective action will be conducted according to the following procedures:

3.1 General Procedure for Plugging and Abandonment

Plugging and abandonment will be conducted based on the “Standard Abandonment Method” in the ADWR Well Abandonment Handbook (Attachment Q-2).

3.1.1 Well and Borehole Preparation

The following tasks will be completed prior to well and borehole abandonment to ensure the success of the plugging procedures that are proposed in the next sub-section.

1. Inspect and Document Well: The well will be inspected from the surface. The condition will be documented and recorded and the site will be photographed.
2. A static water level will be measured.
3. Remove Equipment (if any): Equipment including pumps, wiring, tubing, and transducers will be removed from the well. Some of the wells have PVC liners that can be removed. Any equipment that cannot be retrieved will be documented.

3.1.2 Plugging Procedure

Each well or borehole will be filled as completely as possible with Type V neat cement using the following procedure.

1. The area around the well will be cleared and the casing will be cut at two or more feet below grade. Cement or steel resulting from cutting casing will be removed from the site.
2. The steel casing and screen will be perforated from 50 feet above the static water level down to the bottom of the casing (or screened interval, if there is one).
3. If the well is an open hole completion (i.e. no screen), tremie pipe will be installed to within 20 feet of the bottom of the well. For wells that are determined to be obstructed during preparation, the contractor will try to push the tremie pipe through the obstruction. If the tremie cannot be installed through the obstruction, the contractor will try to install

drill pipe through the obstruction. If both of those options fail, the well will be abandoned from the obstruction to the surface.

4. Type V cement will be installed through the tremie pipe with the end of the tremie pipe below the top surface of the cement to ensure that there are no gaps in the cement seal. The cement will be installed under enough pressure to fill voids in the borehole wall and casing.
5. The site will be leveled and the abandoned well will be covered with soil.

4. DOCUMENTATION AND REPORTING

4.1 Documentation

Field personnel will record types and quantities of materials used and emplacement depths of each material. Each site will be photographed after completion and covering of the borehole. Copies of field data and the forms described below will be maintained at the Project site for inspection until closure is completed.

4.2 Reporting

Following the plugging and abandonment of existing wells, reports will be filed with state and federal agencies as described below.

ADWR: Within 30 days of the completion of plugging and abandonment the drilling contractor will submit a Well Abandonment Completion Report (Form 55-58) to ADWR. Within 30 days of completion of plugging and abandonment Excelsior or their designee will submit a Well Owner's Notification of Abandonment (Form 55-36). The forms are included as Exhibit B.

USEPA: Excelsior will report plugging and abandonment activities in the quarterly monitoring reports sent to the USEPA Director. The plugging and abandonment will be included in the quarterly report for the quarter in which the activities were completed. Reporting data will include an updated version of Form 7520-14 and copies of the forms sent to ADWR described above.

ADEQ: will also be notified, as plugging and abandonment is an element of "Best Available Demonstrated Control Technology" (BADCT) for the wellfield.

TABLE C-1
Wells within the Area of Review

ADWR Registry Number 55-	Cadastral Location	Well Name	Owner Name	Easting NAD 83 (ft)	Northing NAD 83 (ft)	Measuring Point Elevation (ft amsl)	Abandoned	Drill Date	Well Type	Well Depth (ft)	Casing in Hole	Casing Diameter (in)	Casing Depth (ft)	Cemented	Cemented Depth (ft)
221519	D(15-23) 31CBD	NSH-006	EXCELSIOR MINING GROUP	738463.33	394237.3	4833	No	2012	ENV - MONITOR OR PIEZOMETER	680	Yes	4.5	640	Yes	0-615
221520	D(15-23) 31CBD	NSH-003	EXCELSIOR MINING GROUP	738201.82	394344.15	4846	No	2012	ENV - MONITOR OR PIEZOMETER	1432	Yes	4.0	1232	Yes	0-1206
221521	D(15-23) 31CBD	NSH-001	EXCELSIOR MINING CORP	738265.2	393874.58	4834	No	2012	ENV - MONITOR OR PIEZOMETER	1114	Yes	6.5	700	Yes	660-700
221603	D(15-23) 31CCA	NSH-004B	EXCELSIOR MINING CORP	738406.35	393880.07	4834	No	2012	ENV - MONITOR OR PIEZOMETER	1031	Yes	4.5	705	Yes	0-685
221604	D(15-23) 31CBD	NSH-005	EXCELSIOR MINING GROUP	738525.68	394033.38	4830	No	2012	ENV - MONITOR OR PIEZOMETER	1024	Yes	4.5	747	Yes	0-724
223835	D(15-23) 31	NSM-007	EXCELSIOR MINING GROUP	737986.92	394488.9	4844	No	2014	SPCL - MINERAL EXPLORATION	1167.9	Yes	4.5	600	No	N/A
224029	D(15-23) 31CCC	NSH-015	EXCELSIOR MINING CORP	737606.14	393140.05	4808	No	2014	ENV - MONITOR OR PIEZOMETER	820	Yes	8.5	585	Yes	0-577
224030	D(15-23) 31CCC	NSH-016	EXCELSIOR MINING CORP	737458.64	393175.02	4812	No	2014	ENV - MONITOR OR PIEZOMETER	820	Yes	8.5	579	Yes	90-571
224031	D(15-23) 31CCB	NSH-019	EXCELSIOR MINING CORP	738155.23	393436.53	4814	No	2014	ENV - MONITOR OR PIEZOMETER	1410	Yes	8.5	638	Yes	65-631
224032	D(15-23) 31CCA	NSH-021C	EXCELSIOR MINING CORP	738178.3	393503.73	4815	No	2015	ENV - MONITOR OR PIEZOMETER	1400	Yes	5.5	624	Yes	313-617
224033	D(15-23) 31CCA	NSH-024	EXCELSIOR MINING CORP	738422.91	393552.51	4819	No	2015	ENV - MONITOR OR PIEZOMETER	1445	Yes	8.5	625	Yes	109-612
224034	D(15-23) 31CCA	NSH-023	EXCELSIOR MINING CORP	738405.09	393587.65	4820	No	2015	ENV - MONITOR OR PIEZOMETER	1446	Yes	5.5	645	Yes	154-631
224035	D(15-23) 31CAD	NSH-020	EXCELSIOR MINING CORP	739685.67	394225.67	4791	No	2014	ENV - MONITOR OR PIEZOMETER	1600	Yes	4.5	1060	Yes	340-1035
224036	D(15-23) 31CDC	NSH-026	EXCELSIOR MINING CORP	739146.28	392899.09	4794	No	2015	ENV - MONITOR OR PIEZOMETER	905	Yes	8.5	625	Yes	7-612
224059	D(15-23) 31BCC	NSD-037	EXCELSIOR MINING CORP	737845.93	395606.72	4751	No	2014	SPCL - MINERAL EXPLORATION	1284.4	Yes	4.5	524	Yes	513-522
224097	D(15-23) 31CDC	NSH-022	EXCELSIOR MINING CORP	739140.53	393037.93	4784	No	2015	ENV - MONITOR OR PIEZOMETER	1170	Yes	6.5	1010	Yes	209-972
224099	D(15-23) 31CCC	NSH-017	EXCELSIOR MINING CORP	737758.07	393157.78	4807	No	2014	ENV - MONITOR OR PIEZOMETER	1200	Yes	6.5	940	Yes	382-919
224100	D(15-23) 31CAD	NSH-018	EXCELSIOR MINING CORP	739687.04	394387.46	4780	No	2014	ENV - MONITOR OR PIEZOMETER	997	Yes	4.5	610	No	N/A
224154	D(15-22) 36DAA	NSD-026	EXCELSIOR MINING CORP	737356.24	394752.25	4847	No	2012	SPCL - MINERAL EXPLORATION	1168	Yes	4.5	436	No	N/A
224155	D(15-22) 36ADD	NSD-031	EXCELSIOR MINING CORP	737024.7	395487.5	4770	No	2012	SPCL - MINERAL EXPLORATION	1008	Yes	4.5	415	No	N/A
224158	D(15-23) 31CDC	NSH-025	EXCELSIOR MINING CORP	738294.61	393685.78	4825	No	2015	ENV - MONITOR OR PIEZOMETER	1596	Yes	4.5	1480	Yes	20-1461
224159	D(15-23) 31BCC	CS-13	EXCELSIOR MINING CORP	737558.77	395152.18	4768	No	1971	SPCL - MINERAL EXPLORATION	1251	No	N/A	N/A	Yes	394-461
224160	D(15-23) 31BCC	CS-14	EXCELSIOR MINING CORP	737557.34	395698.82	4758	No	1971	SPCL - MINERAL EXPLORATION	1375	No	N/A	N/A	Yes	323-461
224840	D(15-23) 31CBC	NSM-006	EXCELSIOR MINING GROUP	737927.87	394038.78	4847	No	2014	SPCL - MINERAL EXPLORATION	1217	Yes	4.5	529	No	N/A
224841	D(15-23) 31CCD	NSM-005A	EXCELSIOR MINING GROUP	738781.26	393106.74	4787	No	2014	SPCL - MINERAL EXPLORATION	1171.5	Yes	5.0	593	No	N/A
224842	D(15-23) 31CBD	NSM-004	EXCELSIOR MINING GROUP	738506.71	393990.27	4829	No	2014	SPCL - MINERAL EXPLORATION	1114.5	Yes	4.5	596	No	N/A
224844	D(15-23) 31CCB	NSM-008	EXCELSIOR MINING GROUP	738095.92	393386.62	4816	No	2014	SPCL - MINERAL EXPLORATION	1273	Yes	5.0	546	No	N/A
224845	D(15-23) 31CDC	NSM-009	EXCELSIOR MINING GROUP	738954.82	392689.54	4794	No	2014	SPCL - MINERAL EXPLORATION	1349.1	Yes	5.0	586	No	N/A
224846	D(15-23) 31CCC	NSD-033	EXCELSIOR MINING GROUP	737855.83	392788.24	4809	No	2014	SPCL - MINERAL EXPLORATION	1579	Yes	4.5	500	No	N/A
224847	D(15-22) 36DAC	NSM-013	EXCELSIOR MINING GROUP	736785.02	394382.74	4881	No	2014	SPCL - MINERAL EXPLORATION	953	Yes	4.5	404	Yes	402-404
224848	D(15-22) 36DBA	NSD-030	EXCELSIOR MINING GROUP	736012.13	394822.54	4785	No	2012	SPCL - MINERAL EXPLORATION	767	Yes	4.5	256	No	N/A
224854	D(15-22) 36DBD	NSD-036	EXCELSIOR MINING CORP	735758.93	394267.19	4888	No	2014	SPCL - MINERAL EXPLORATION	793.3	Yes	4.5	501	Yes	501-502
224860	D(15-23) 31CDB	NSD-043	EXCELSIOR MINING CORP	739255.99	393741	4802	No	2014	SPCL - MINERAL EXPLORATION	1736	Yes	4.5	627	Yes	618-628
224930	D(15-23) 31CBC	NSD-023	EXCELSIOR MINING CORP	737808.48	394173.78	4857	No	2012	SPCL - MINERAL EXPLORATION	1546	Yes	4.5	552	No	N/A
224931	D(15-23) 31CAC	NSD-024	EXCELSIOR MINING CORP	738799.08	394051.36	4823	No	2012	SPCL - MINERAL EXPLORATION	1972	Yes	4.5	671	No	N/A
224932	D(15-23) 31CDC	NSD-025	EXCELSIOR MINING CORP	738697.88	393061.4	4790	No	2012	SPCL - MINERAL EXPLORATION	1643.5	Yes	4.5	637	No	N/A
224933	D(15-23) 31CBD	NSM-001	EXCELSIOR MINING CORP	738051.78	394181.02	4851	No	2012	SPCL - MINERAL EXPLORATION	1150	Yes	3.5	590	No	N/A
224934	D(15-23) 31CCD	NSM-002	EXCELSIOR MINING CORP	738195.42	392736.92	4809	No	2012	SPCL - MINERAL EXPLORATION	1000	Yes	4.5	507	No	N/A
224935	D(15-23) 31CCC	NSM-003	EXCELSIOR MINING CORP	737701.35	392934.29	4810	No	2012	SPCL - MINERAL EXPLORATION	1028	Yes	4.5	608	No	N/A
224936	D(15-22) 36DAD	NSD-027	EXCELSIOR MINING CORP	736806.45	394419.15	4883	No	2012	SPCL - MINERAL EXPLORATION	1004.5	Yes	4.5	404	No	N/A
224937	D(15-22) 36DAC	NSD-028	EXCELSIOR MINING CORP	736291.67	394433.4	4881	No	2012	SPCL - MINERAL EXPLORATION	755	Yes	4.5	396	No	N/A
224938	D(15-22) 36DAB	NSD-029	EXCELSIOR MINING CORP	736101.29	395247.79	4785	No	2012	SPCL - MINERAL EXPLORATION	260	Yes	4.5	279	No	N/A
224939	D(15-22) 36DAB	NSD-032	EXCELSIOR MINING CORP	736626.53	395306.53	4772	No	2012	SPCL - MINERAL EXPLORATION	686	Yes	N/I	N/I	N/I	N/I
224940	D(15-23) 31CCB	NSD-001	EXCELSIOR MINING CORP	737801.3	393537.11	4827	No	2011	SPCL - MINERAL EXPLORATION	1505.5	Yes	4.5	460	No	N/A
224941	D(15-23) 31CCC	NSD-002	EXCELSIOR MINING CORP	737726.8	392950.87	4810	No	2011	SPCL - MINERAL EXPLORATION	1907	Yes	4.5	560	Yes	564-574
224942	D(15-23) 31CCD	NSD-003	EXCELSIOR MINING CORP	738449.28	392692.12	4805	No	2011	SPCL - MINERAL EXPLORATION	2008	Yes	4.5	563	No	N/A
224943	D(15-23) 31CCD	NSD-009	EXCELSIOR MINING CORP	739417.77	393047.95	4788	No	2011	SPCL - MINERAL EXPLORATION	1793	Yes	4.5	620	No	N/A
224944	D(15-23) 31CCA	NSD-011	EXCELSIOR MINING CORP	738326.23	393923.43	4834	No	2011	SPCL - MINERAL EXPLORATION	1438	Yes	4.5	650	No	N/A
224945	D(15-23) 31CCB	NSD-019	EXCELSIOR MINING CORP	737674.27	393873.59	4848	No	2011	SPCL - MINERAL EXPLORATION	1454	Yes	4.5	620	No	N/A
224946	D(15-23) 31CDB	NSD-020	EXCELSIOR MINING CORP	738950.33	393545.51	4800	No	2011	SPCL - MINERAL EXPLORATION	660	Yes	4.5	660	No	N/A
225068	D(15-22) 36ADA	DC-09	EXCELSIOR MINING CORP	737203.44	396082.94	4765	No	N/I	SPCL - MINERAL EXPLORATION	1500	N/I	N/I	N/I	N/I	N/I
225070	D(15-22) 36DAA	JS-05	EXCELSIOR MINING CORP	736922.48	394882.63	4765	No	1989	SPCL - MINERAL EXPLORATION	588	N/I	N/I	N/I	N/I	N/I
225071	D(15-22) 36DAA	JS-06	EXCELSIOR MINING CORP	736941.08	394790.93	4773	No	1989	SPCL - MINERAL EXPLORATION	599	N/I	N/I	N/I	N/I	N/I
225072	D(15-22) 36DAA	JS-07	EXCELSIOR MINING CORP	736922.17	394976	4768	No	1989	SPCL - MINERAL EXPLORATION	478.5	N/I	N/I	N/I	N/I	N/I
225076	D(15-22) 36DAA	S-01	EXCELSIOR MINING CORP	737274.78	395034.29	4769	Yes	1973	SPCL - MINERAL EXPLORATION	1211	N/A	N/A	N/A	N/A	N/A
225077	D(15-22) 36ADC	S-03	EXCELSIOR MINING CORP	736599.02	395756.74	4777	Yes	N/I	SPCL - MINERAL EXPLORATION	1223	N/A	N/A	N/A	N/A	N/A
225078	D(15-22) 36DAB	S-04	EXCELSIOR MINING CORP	736497.89	394892.23	4776	Yes	1973	SPCL - MINERAL EXPLORATION	966	N/A	N/A	N/A	N/A	N/A
225087	D(15-23) 31CCD	CS-03	EXCELSIOR MINING CORP	738647.21	393212.04	4794	No	1971	SPCL - MINERAL EXPLORATION	2038	No	N/A	N/A	Yes	458-486
225088	D(15-23) 31CDB	CS-04	EXCELSIOR MINING CORP	739134.38	393245.21	4780	No	1971	SPCL - MINERAL EXPLORATION	2209	No	N/A	N/A	Yes	137-631

TABLE C-1
Wells within the Area of Review

ADWR Registry Number 55-	Cadastral Location	Well Name	Owner Name	Easting NAD 83 (ft)	Northing NAD 83 (ft)	Measuring Point Elevation (ft amsl)	Abandoned	Drill Date	Well Type	Well Depth (ft)	Casing in Hole	Casing Diameter (in)	Casing Depth (ft)	Cemented	Cemented Depth (ft)
225089	D(15-23) 31CDC	CS-05	EXCELSIOR MINING CORP	738608.92	393694.89	4818	No	1971	SPCL - MINERAL EXPLORATION	2034	No	N/A	N/A	Yes	628-640
225090	D(15-23) 31CAC	CS-06	EXCELSIOR MINING CORP	738576.3	394194.54	4831	No	1971	SPCL - MINERAL EXPLORATION	2160	No	N/A	N/A	Yes	630-715
225091	D(15-23) 31CBC	CS-07	EXCELSIOR MINING CORP	738071.33	394162.26	4850	No	1971	SPCL - MINERAL EXPLORATION	1796	Yes	4.5	596	Yes	506-596
225092	D(15-23) 31CAC	CS-08	EXCELSIOR MINING CORP	739077.57	394231.13	4809	No	1971	SPCL - MINERAL EXPLORATION	2304	No	N/A	N/A	Yes	250-648
225093	D(15-23) 31CAB	CS-09	EXCELSIOR MINING CORP	738551.02	395144.23	4833	No	1971	SPCL - MINERAL EXPLORATION	2337	No	N/A	N/A	Yes	360-715
225094	D(15-23) 31CBD	CS-10	EXCELSIOR MINING CORP	738060.5	394653.38	4829	No	1971	SPCL - MINERAL EXPLORATION	1656	No	N/A	N/A	Yes	720-730
225095	D(15-23) 31CBC	CS-11	EXCELSIOR MINING CORP	737554.82	394166.14	4863	No	1971	SPCL - MINERAL EXPLORATION	2084	No	N/A	N/A	Yes	416-480
225096	D(15-23) 31BCB	CS-15	EXCELSIOR MINING CORP	737561.5	396153.55	4757	No	1971	SPCL - MINERAL EXPLORATION	492	No	N/A	N/A	No	N/A
225097	D(15-23) 31BCD	CS-19	EXCELSIOR MINING CORP	738065.04	395870.87	4757	No	1971	SPCL - MINERAL EXPLORATION	580	Yes	3.5	580	Yes	480-580
225098	D(15-23) 31CBD	CS-21	EXCELSIOR MINING CORP	738532.95	394655.34	4810	No	1971	SPCL - MINERAL EXPLORATION	2171	No	N/A	N/A	Yes	605-687
225099	D(15-23) 31BDA	CS-23	EXCELSIOR MINING CORP	738556.65	396154.06	4792	No	1971	SPCL - MINERAL EXPLORATION	622	Yes	3.5	622	Yes	522-622
225100	D(15-23) 31CAD	CS-41	EXCELSIOR MINING CORP	739357.3	394653.69	4793	No	1971	SPCL - MINERAL EXPLORATION	448	Yes	4.0	448	Yes	408-448
225101	D(15-23) 31CDC	CS-51	EXCELSIOR MINING CORP	739035.96	392707.85	4792	No	1972	SPCL - MINERAL EXPLORATION	1838	No	N/A	N/A	Yes	552-639
225103	D(15-23) 31CCD	J-04	EXCELSIOR MINING CORP	737987.71	393154.24	4804	No	1970	SPCL - MINERAL EXPLORATION	1509	N/I	N/I	N/I	N/I	N/I
225104	D(15-23) 31CCB	J-05	EXCELSIOR MINING CORP	737444.95	393699.86	4837	No	1974	SPCL - MINERAL EXPLORATION	1475	N/I	N/I	N/I	N/I	N/I
225105	D(15-23) 31CCC	J-06	EXCELSIOR MINING CORP	737434.29	392728.1	4824	No	1970	SPCL - MINERAL EXPLORATION	937	N/I	N/I	N/I	N/I	N/I
225106	D(15-23) 31CBC	J-07	EXCELSIOR MINING CORP	737878.08	394483.65	4846	No	N/I	SPCL - MINERAL EXPLORATION	988	N/I	N/I	N/I	N/I	N/I
225107	D(15-23) 31CBA	J-08	EXCELSIOR MINING CORP	738233.34	394829.84	4810	No	N/I	SPCL - MINERAL EXPLORATION	1350	N/I	N/I	N/I	N/I	N/I
225109	D(15-23) 31CBD	J-10	EXCELSIOR MINING CORP	738111.75	394409.48	4855	No	N/I	SPCL - MINERAL EXPLORATION	1062	N/I	N/I	N/I	N/I	N/I
225110	D(15-23) 31CCA	MCC-1	EXCELSIOR MINING CORP	738115.44	393891.8	4836	Yes	1994	SPCL - MINERAL EXPLORATION	1346	N/A	N/A	N/A	N/A	N/A
225111	D(15-23) 31CCA	MCC-2	EXCELSIOR MINING CORP	738341.25	393919.23	4834	Yes	1994	SPCL - MINERAL EXPLORATION	1232	N/A	N/A	N/A	N/A	N/A
225112	D(15-23) 31CCA	MCC-3	EXCELSIOR MINING CORP	738377.4	393414.04	4812	Yes	1994	SPCL - MINERAL EXPLORATION	1346	N/A	N/A	N/A	N/A	N/A
562255	D(15-22) 36DAD	SULLY 97-7	EXCELSIOR MINING CORP	736854.35	394663.73	4800	Yes	N/I	SPCL - MINERAL EXPLORATION	396	N/A	N/A	N/A	N/A	N/A
622849	D(15-23) 31CBA	HIGGINBOTHAM	RONALD B & VENICE J HIGGINBOTHAM FAMILY TRUST	738756.28	394926.73	4830	N/I	N/I	NON-EXEMPT	1350	N/I	N/I	N/I	N/I	N/I
917429	D(15-22) 36DAA	NSH-008	EXCELSIOR MINING CORP	736856.77	395088.59	4772	No	2014	ENV - MONITOR OR PIEZOMETER	900	Yes	4.5	720	Yes	191-700
917430	D(15-22) 36DAB	NSH-007	EXCELSIOR MINING CORP	736757.42	394889.08	4773	No	2014	ENV - MONITOR OR PIEZOMETER	640	Yes	8.5	469	Yes	30-463
917432	D(15-23) 31BCC	NSH-014B	EXCELSIOR MINING CORP	737667.63	395577	4749	No	2014	ENV - MONITOR OR PIEZOMETER	1277	Yes	4.5	1180	Yes	65-1160
917433	D(15-23) 31BCC	NSH-009	EXCELSIOR MINING CORP	737455.53	395561.03	4754	No	2014	ENV - MONITOR OR PIEZOMETER	1060	Yes	4.5	813	Yes	353-785
917434	D(15-23) 31BCC	NSH-010	EXCELSIOR MINING CORP	737605.1	395490.01	4750	No	2014	ENV - MONITOR OR PIEZOMETER	720	Yes	8.5	546	Yes	0-546
917435	D(15-23) 31BCC	NSH-012	EXCELSIOR MINING CORP	737755.85	395538.41	4750	No	2014	ENV - MONITOR OR PIEZOMETER	504	Yes	4.5	430	Yes	0-409
917436	D(15-23) 31CBC	NSH-013	EXCELSIOR MINING CORP	738056.78	394338.52	4850	No	2014	ENV - MONITOR OR PIEZOMETER	1070	Yes	8.5	646	Yes	75-646
917775	D(15-23) 31CAD	NSH-030	EXCELSIOR MINING CORP	739691.19	394683.79	4792	No	2015	ENV - MONITOR OR PIEZOMETER	740	Yes	2.5	600	No	N/A
917777	D(15-23) 31CDA	NSH-029	EXCELSIOR MINING CORP	739681.74	393940.42	4797	No	2015	ENV - MONITOR OR PIEZOMETER	710	Yes	2.5	604	No	N/A
917782	D(15-23) 31BCB	NSH-031	EXCELSIOR MINING CORP	737236.87	395991.56	4763	No	2015	ENV - MONITOR OR PIEZOMETER	820	Yes	2.5	721	Yes	0-683
917783	D(15-23) 31CDA	NSH-032	EXCELSIOR MINING CORP	737550.79	395796.75	4759	No	2015	ENV - MONITOR OR PIEZOMETER	820	Yes	2.5	720	Yes	0-690
N/I	D(15-23) 31CCB	CS-02	EXCELSIOR MINING CORP	738122.13	393675.99	4821	No	1971	SPCL - MINERAL EXPLORATION	1770	No	N/A	N/A	Yes	440-508
N/I	D(15-23) 31DBB	J-01	EXCELSIOR MINING CORP	740078.54	394723.65	4786	Yes	1970	SPCL - MINERAL EXPLORATION	1800	N/A	N/A	N/A	N/A	N/A
N/I	D(15-23) 31CBB	J-09	EXCELSIOR MINING CORP	737859.91	394645.39	4824	No	N/I	SPCL - MINERAL EXPLORATION	1158	N/I	N/I	N/I	N/I	N/I
N/I	D(15-23) 31CCA	MCC-8	EXCELSIOR MINING CORP	738499.34	393416.72	4808	Yes	1995	SPCL - MINERAL EXPLORATION	1013	N/A	N/A	N/A	N/A	N/A

Notes: ADWR = Arizona Department of Water Resources; ft amsl = feet above mean sea level; N/A = Not Applicable; N/I = No Information



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

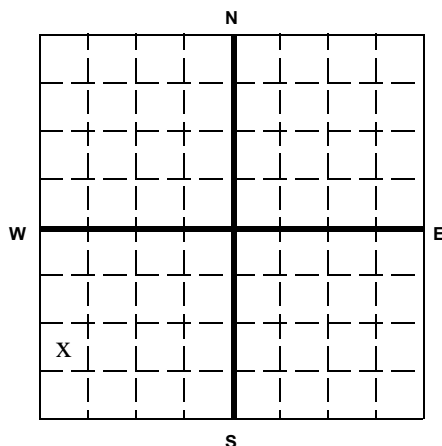
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 992 ft. from (N/S) S Line of quarter section
and 712 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

N/A, CS-02

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1770						
Sacks of Cement To Be Used (each plug)	165						
Slurry Volume To Be Pumped (cu. ft.)	195						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1770		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$12,390

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

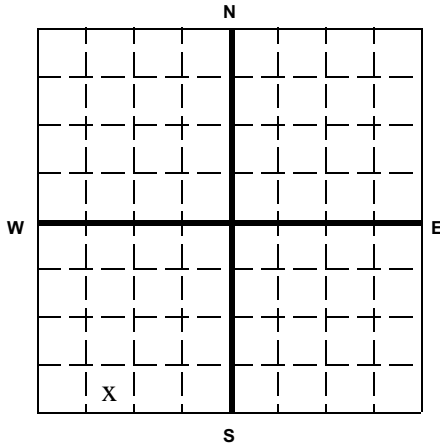
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 514 ft. from (N/S) S Line of quarter section
and 1233 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225087, CS-03

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	2038						
Sacks of Cement To Be Used (each plug)	151						
Slurry Volume To Be Pumped (cu. ft.)	178						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	2038		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,266

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

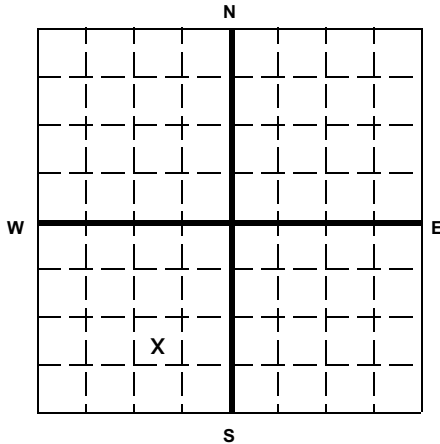
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 564 ft. frm (N/S) S Line of quarter section
and 747 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225088, CS-04

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	2209						
Sacks of Cement To Be Used (each plug)	164						
Slurry Volume To Be Pumped (cu. ft.)	193						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$15,463

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

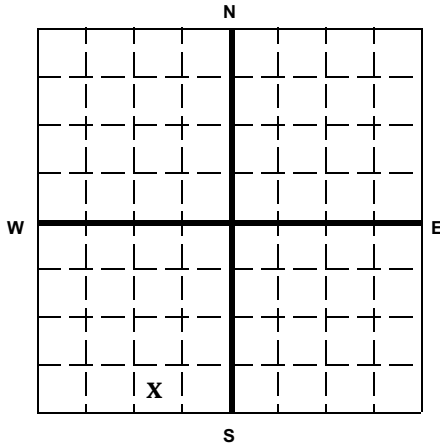
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 323 ft. frm (N/S) N Line of quarter section
and 1271 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-225089, CS-05

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	2034						
Sacks of Cement To Be Used (each plug)	150						
Slurry Volume To Be Pumped (cu. ft.)	177						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	2034		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,238

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

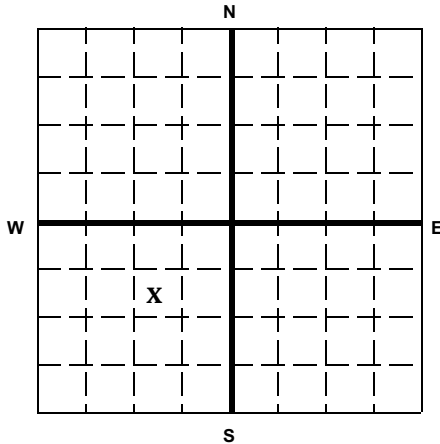
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of NE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1140 ft. from (N/S) N Line of quarter section
and 1228 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-225090, CS-06

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	2160						
Sacks of Cement To Be Used (each plug)	159						
Slurry Volume To Be Pumped (cu. ft.)	188						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	2160		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$15,120

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

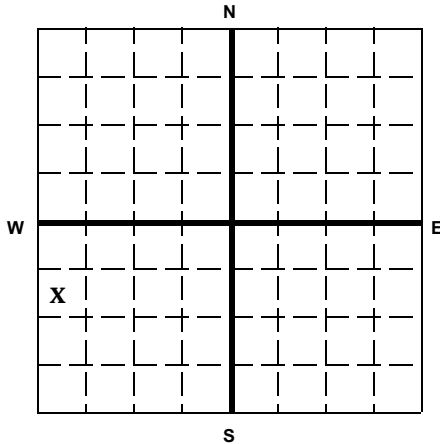
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of SW 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1183 ft. frm (N/S) N Line of quarter section
and 723 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225091, CS-07

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	~596	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	~596						
Sacks of Cement To Be Used (each plug)	168						
Slurry Volume To Be Pumped (cu. ft.)	198						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$4,172

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

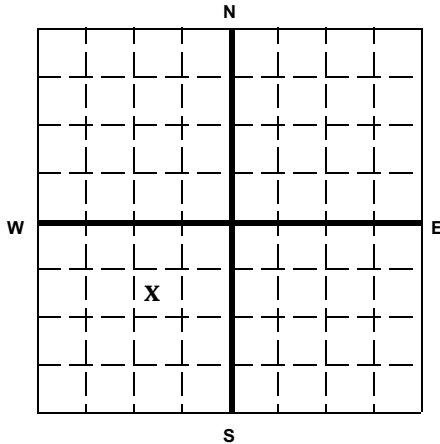
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of ne 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1087 ft. frm (N/S) N Line of quarter section
and 806 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-225092, CS-08

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	2304						
Sacks of Cement To Be Used (each plug)	170						
Slurry Volume To Be Pumped (cu. ft.)	201						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	2304		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$16,128

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

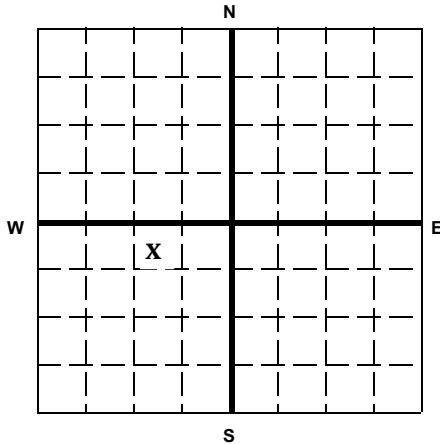
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of NE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 199 ft. frm (N/S) N Line of quarter section
and 1196 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225093, CS-09

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	3.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	2337						
Sacks of Cement To Be Used (each plug)	132						
Slurry Volume To Be Pumped (cu. ft.)	156						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	2337		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$16,359

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

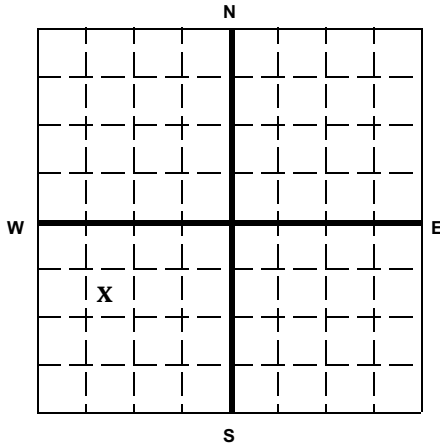
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 686 ft. frm (N/S) N Line of quarter section
and 699 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225094, CS-10

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	3.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1656						
Sacks of Cement To Be Used (each plug)	94						
Slurry Volume To Be Pumped (cu. ft.)	111						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1656		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$11,592

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

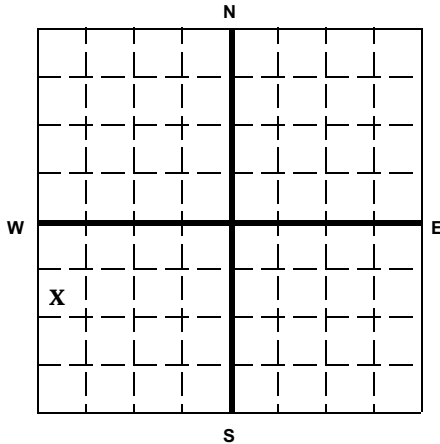
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of SW 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1176 ft. from (N/S) N Line of quarter section
and 203 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225095, CS-11

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	3.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	2084						
Sacks of Cement To Be Used (each plug)	118						
Slurry Volume To Be Pumped (cu. ft.)	139						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	2084		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,588

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

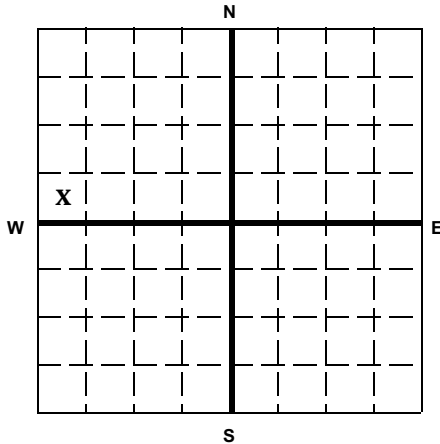
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 199 ft. frm (N/S) N Line of quarter section
and 203 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224159, CS-13

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	3.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1251						
Sacks of Cement To Be Used (each plug)	71						
Slurry Volume To Be Pumped (cu. ft.)	84						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1251		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,757

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

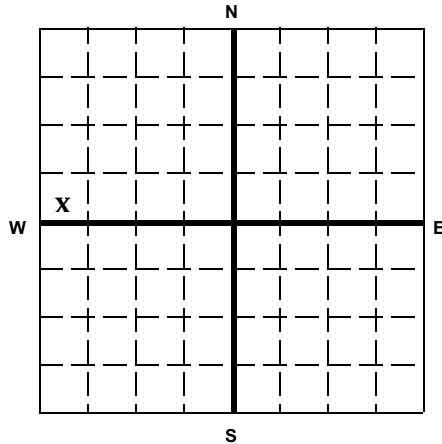
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 339 ft. frm (N/S) S Line of quarter section
and 203 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224160, CS-14

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	1375						
Sacks of Cement To Be Used (each plug)	102						
Slurry Volume To Be Pumped (cu. ft.)	120						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1375		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$9,625

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

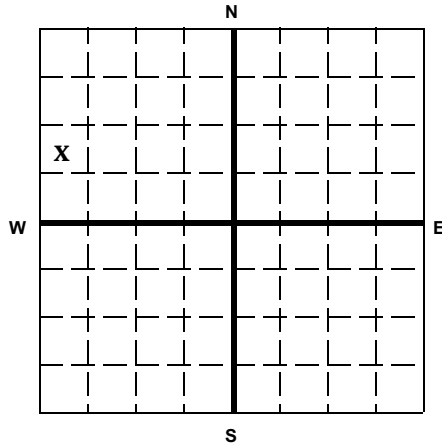
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of NW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 808 ft. frm (N/S) S Line of quarter section
and 208 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225096, CS-15

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5						
Depth to Bottom of Tubing or Drill Pipe (ft)	492						
Sacks of Cement To Be Used (each plug)	57						
Slurry Volume To Be Pumped (cu. ft.)	67						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	492		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$3,444

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

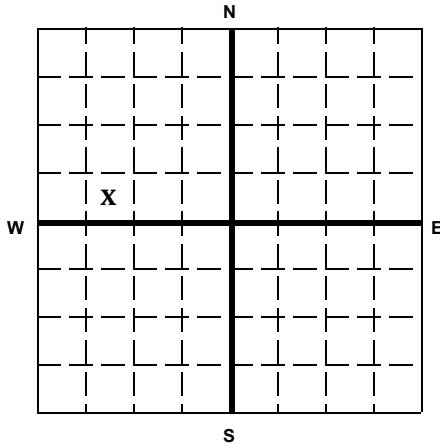
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 519 ft. from (N/S) S Line of quarter section
and 709 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-225097, CS-19

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
3.5	Unknown	0	580	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	3.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	580						
Sacks of Cement To Be Used (each plug)	33						
Slurry Volume To Be Pumped (cu. ft.)	39						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$4,060

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

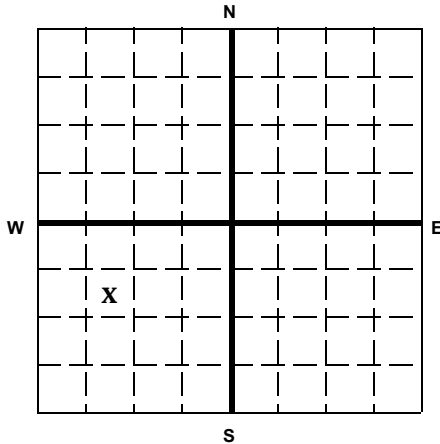
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ft. frm (N/S) Line of quarter section
and ft. from (E/W) Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225098, CS-21

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	3.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	2171						
Sacks of Cement To Be Used (each plug)	123						
Slurry Volume To Be Pumped (cu. ft.)	145						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	2171		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$15,197

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

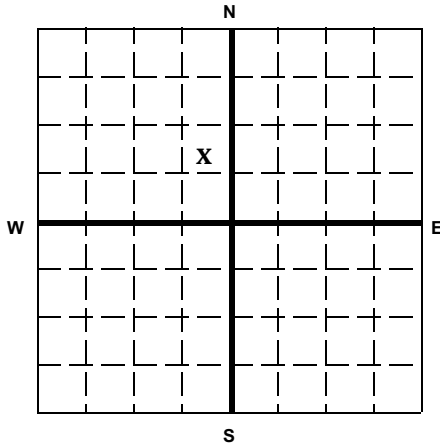
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of Ne 1/4 of Se 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 830 ft. frm (N/S) S Line of quarter section
and 1156 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225099, CS-23

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
3.5	Unknown	0	622	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	3.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	622						
Sacks of Cement To Be Used (each plug)	32						
Slurry Volume To Be Pumped (cu. ft.)	41.56						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$4,354

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



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Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

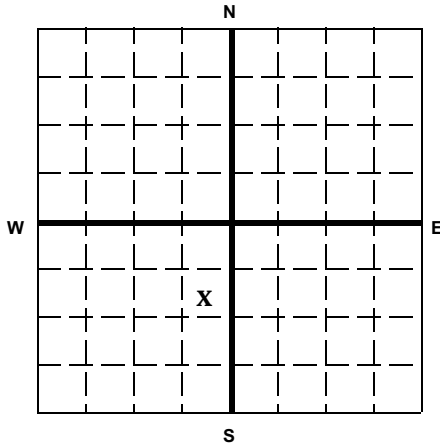
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of Se 1/4 of ne 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 665 ft. frm (N/S) N Line of quarter section
and 365 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225100, CS-41

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4	Unknown	448	448	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	448						
Sacks of Cement To Be Used (each plug)	33						
Slurry Volume To Be Pumped (cu. ft.)	39.1						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$3,136

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

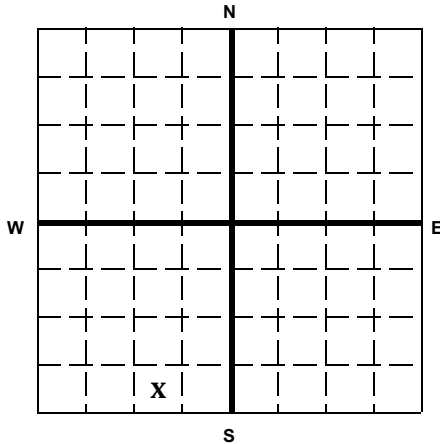
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 20 ft. from (N/S) S Line of quarter section
and 867 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-225101, CS-51

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	1838						
Sacks of Cement To Be Used (each plug)	189						
Slurry Volume To Be Pumped (cu. ft.)	160						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1838		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$12,866

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

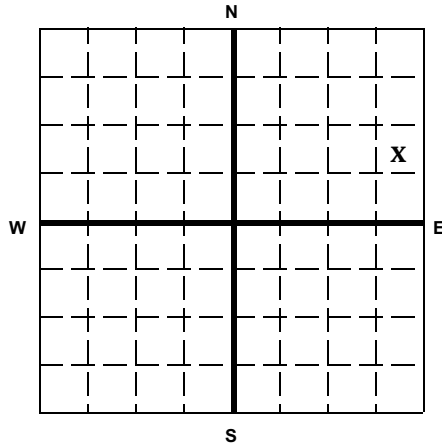
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of ne 1/4 of se 1/4 of ne 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 722 ft. frm (N/S) S Line of quarter section
and 150 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225068, DC-09

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	1500						
Sacks of Cement To Be Used (each plug)	111						
Slurry Volume To Be Pumped (cu. ft.)	131						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1500		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$10,500

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

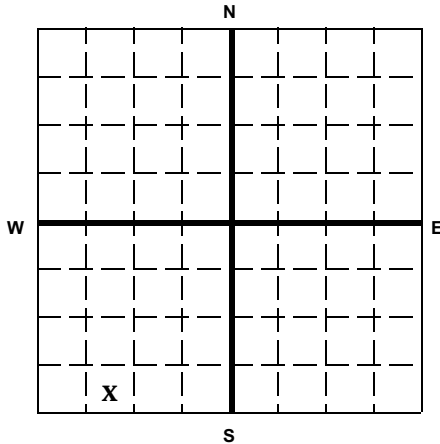
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 462 ft. from (N/S) S Line of quarter section
and 645 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225103, J-04

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	1509						
Sacks of Cement To Be Used (each plug)	112						
Slurry Volume To Be Pumped (cu. ft.)	132						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1509		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$10,563

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

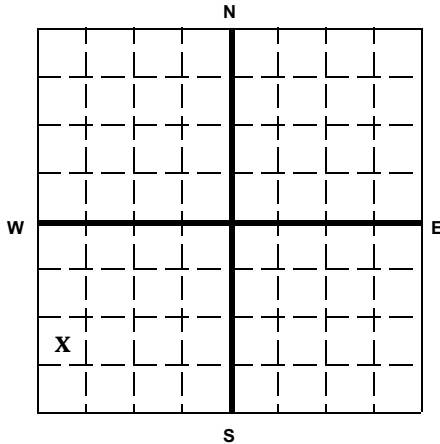
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 459 ft. from (N/S) S Line of quarter section
and 621 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225104, J-05

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	1475						
Sacks of Cement To Be Used (each plug)	109						
Slurry Volume To Be Pumped (cu. ft.)	129						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1475		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$10,325

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

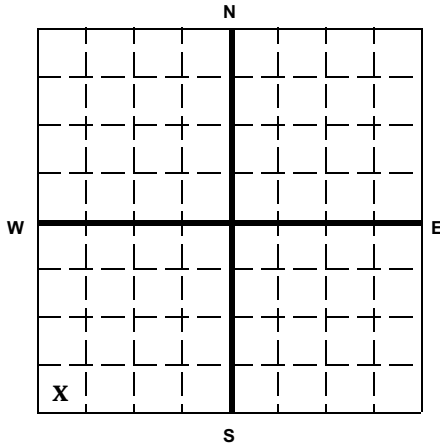
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 24 ft. from (N/S) S Line of quarter section
and 30 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225105, J-06

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	937						
Sacks of Cement To Be Used (each plug)	70						
Slurry Volume To Be Pumped (cu. ft.)	82						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	937		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$6,559

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

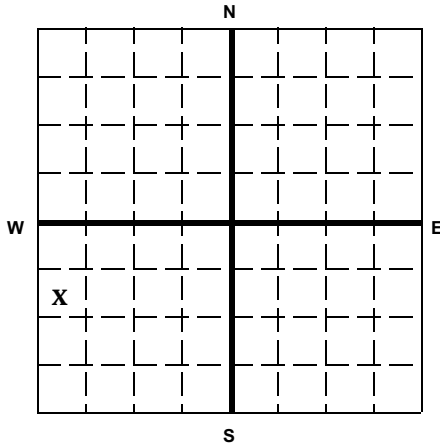
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 855 ft. frm (N/S) N Line of quarter section
and 521 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225106, J-07

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	3.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	938						
Sacks of Cement To Be Used (each plug)	56						
Slurry Volume To Be Pumped (cu. ft.)	66						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	938		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$6,566

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

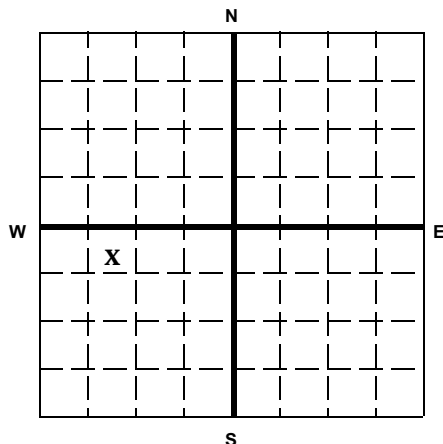
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 513 ft. from (N/S) N Line of quarter section
and 875 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225107, J-08

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1062						
Sacks of Cement To Be Used (each plug)	126						
Slurry Volume To Be Pumped (cu. ft.)	149						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$7,434

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

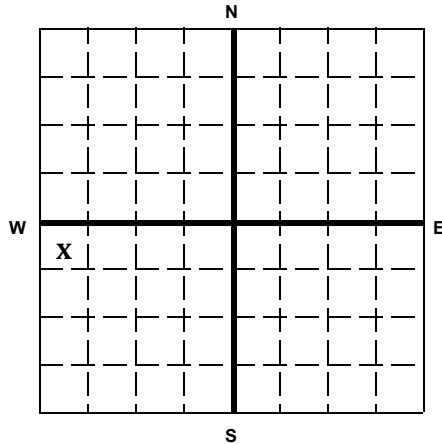
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 698 ft. frm (N/S) N Line of quarter section
and 508 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number N/A, J-09

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1158						
Sacks of Cement To Be Used (each plug)	108						
Slurry Volume To Be Pumped (cu. ft.)	128						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	1158		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,106

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



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Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

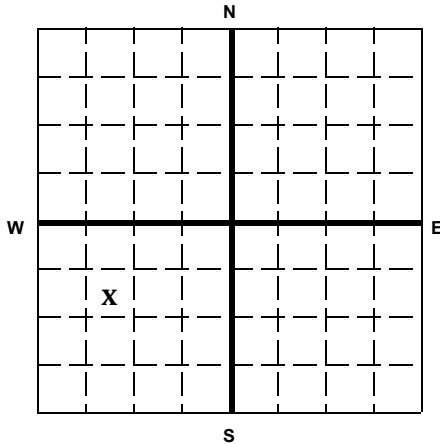
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15E Range 23S

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 928 ft. frm (N/S) N Line of quarter section
and 758 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225109, J-10

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1062						
Sacks of Cement To Be Used (each plug)	99						
Slurry Volume To Be Pumped (cu. ft.)	117						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$7,434

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

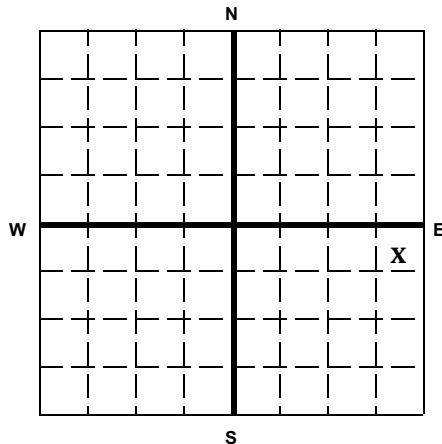
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of ne 1/4 of ne 1/4 of se 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 460 ft. frm (N/S) N Line of quarter section
and 429 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225070, JS-05

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	588						
Sacks of Cement To Be Used (each plug)	55						
Slurry Volume To Be Pumped (cu. ft.)	65						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	588		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$4,116

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

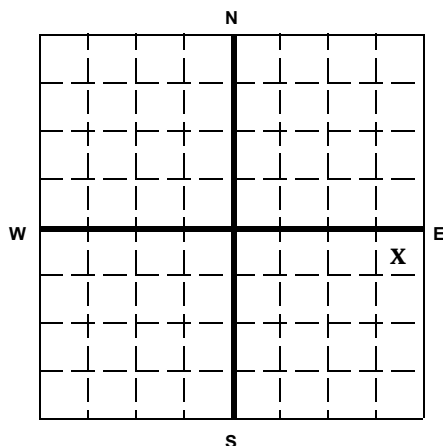
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of ne 1/4 of ne 1/4 of se 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 551 ft. frm (N/S) N Line of quarter section
and 406 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-225071, JS-06

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	0	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	599						
Sacks of Cement To Be Used (each plug)	56						
Slurry Volume To Be Pumped (cu. ft.)	66						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
0	599		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$4,193

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

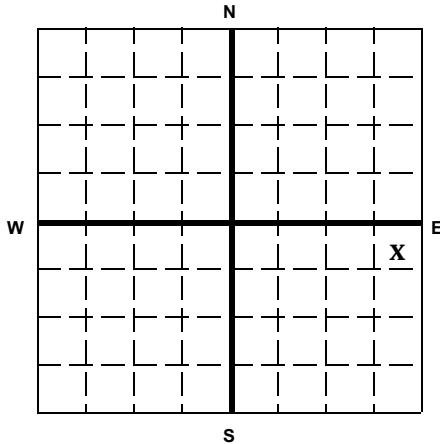
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of ne 1/4 of ne 1/4 of se 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 375 ft. frm (N/S) N Line of quarter section
and 420 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-225072, JS-07

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
NA	Unknown	0	~369	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	~369						
Sacks of Cement To Be Used (each plug)	45						
Slurry Volume To Be Pumped (cu. ft.)	53						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$2,583

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

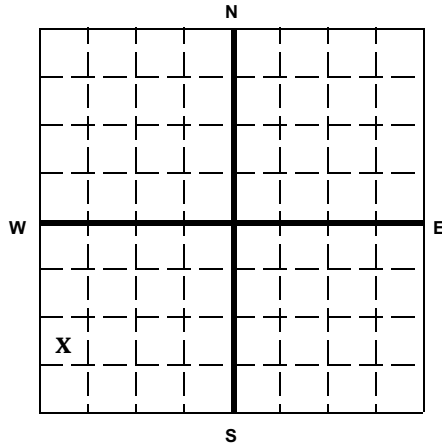
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 843 ft. from (N/S) S Line of quarter section
and 455 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224940, NSD-001

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	460	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1506						
Sacks of Cement To Be Used (each plug)	141						
Slurry Volume To Be Pumped (cu. ft.)	166						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
460	1506		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$10,542

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

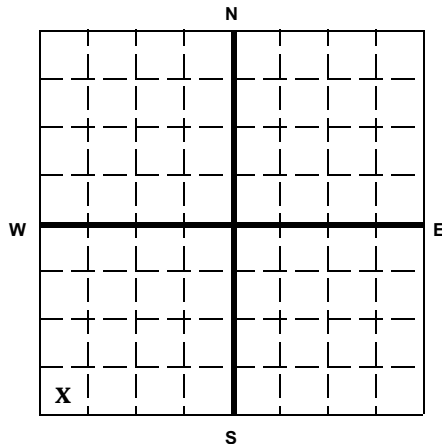
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 256 ft. from (N/S) S Line of quarter section
and 387 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224941, NSD-002

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	560	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1907						
Sacks of Cement To Be Used (each plug)	179						
Slurry Volume To Be Pumped (cu. ft.)	211						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
560	1907		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$13,349

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

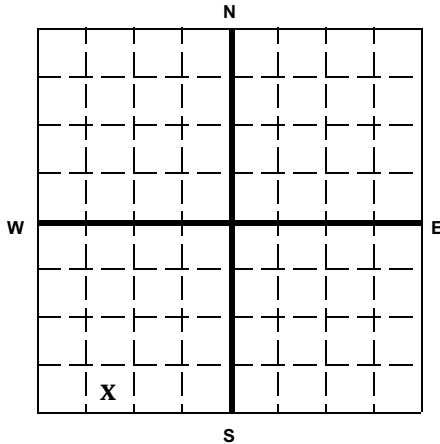
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 10 ft. frm (N/S) S Line of quarter section
and 1032 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224942, NSD-003

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	563	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	2008						
Sacks of Cement To Be Used (each plug)	188						
Slurry Volume To Be Pumped (cu. ft.)	222						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
563	2008		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,056

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

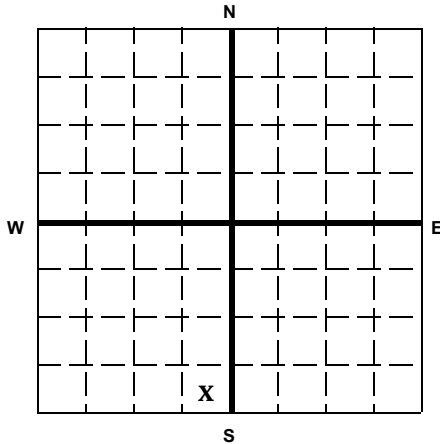
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 366 ft. frm (N/S) S Line of quarter section
and 449 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224943, NSD-009

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	620	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1793						
Sacks of Cement To Be Used (each plug)	168						
Slurry Volume To Be Pumped (cu. ft.)	198						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
620	1793		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$12,551

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

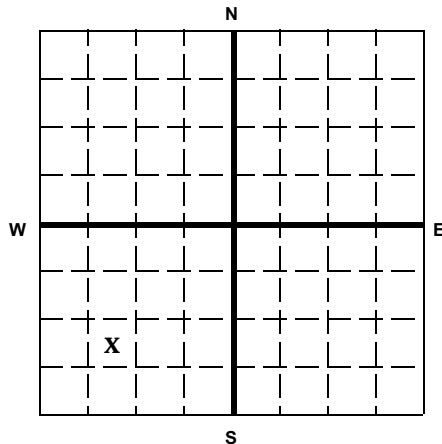
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1222 ft. from (N/S) S Line of quarter section
and 980 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224944, NSD-011

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	650	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	6.25	3.75					
Depth to Bottom of Tubing or Drill Pipe (ft)	650	1440					
Sacks of Cement To Be Used (each plug)	117	51					
Slurry Volume To Be Pumped (cu. ft.)	138	61					
Calculated Top of Plug (ft.)	2	650					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
~620	1440		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$10,080

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

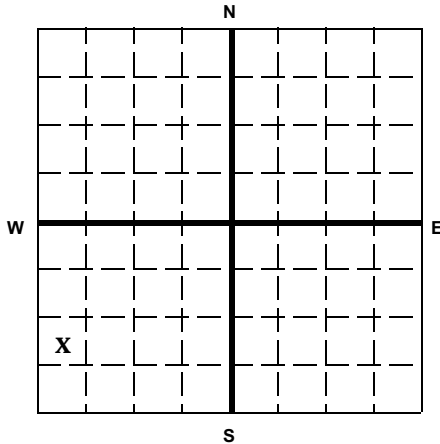
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1174 ft. from (N/S) S Line of quarter section
and 324 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224945, NSD-019

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	620	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1454						
Sacks of Cement To Be Used (each plug)	136						
Slurry Volume To Be Pumped (cu. ft.)	161						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
620	1454		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$10,178

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

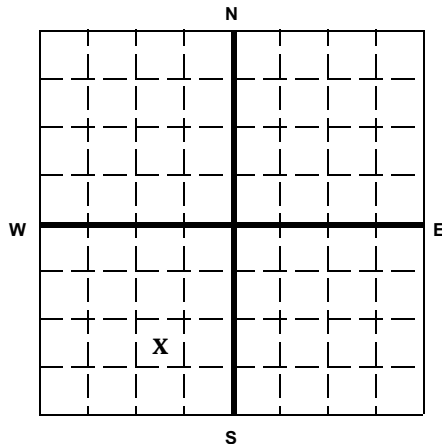
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 858 ft. frm (N/S) S Line of quarter section
and 934 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224946, NSD-020

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	660	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	660						
Sacks of Cement To Be Used (each plug)	62						
Slurry Volume To Be Pumped (cu. ft.)	73						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$4,620

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

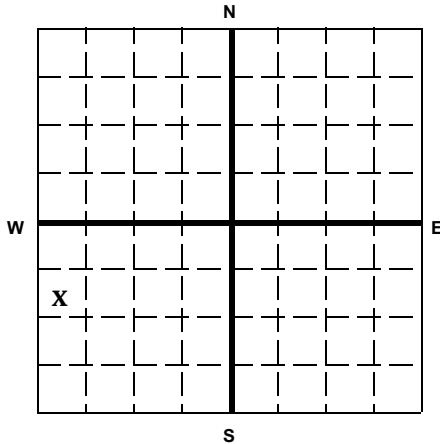
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1170 ft. from (N/S) N Line of quarter section
and 455 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224930, NSD-023

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	552	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1546						
Sacks of Cement To Be Used (each plug)	145						
Slurry Volume To Be Pumped (cu. ft.)	171						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
552	1546		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$10,822

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

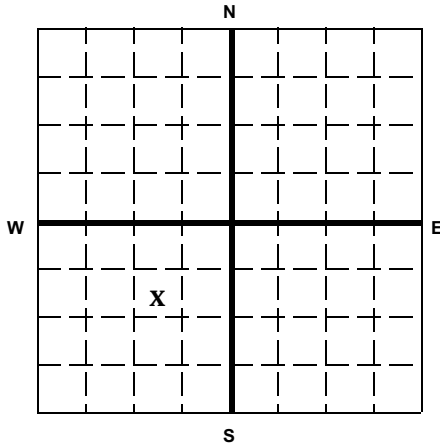
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of ne 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1278 ft. from (N/S) N Line of quarter section
and 1081 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224931, NSD-024

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	671	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1972						
Sacks of Cement To Be Used (each plug)	185						
Slurry Volume To Be Pumped (cu. ft.)	218						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
671	1972		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$13,804

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

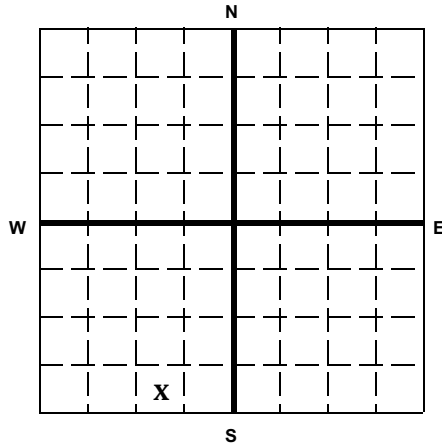
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of SW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 364 ft. frm (N/S) S Line of quarter section
and 1173 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224932, NSD-025

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	637	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1644						
Sacks of Cement To Be Used (each plug)	154						
Slurry Volume To Be Pumped (cu. ft.)	182						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
637	1644		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$11,508

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

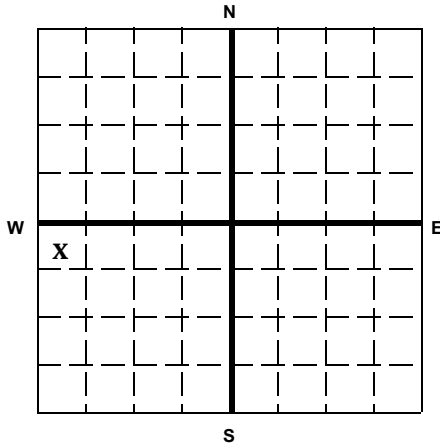
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of ne 1/4 of ne 1/4 of se 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 591 ft. frm (N/S) N Line of quarter section
and 1 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224154, NSD-026

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	436	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1168						
Sacks of Cement To Be Used (each plug)	109						
Slurry Volume To Be Pumped (cu. ft.)	129						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
436	1168		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,176

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

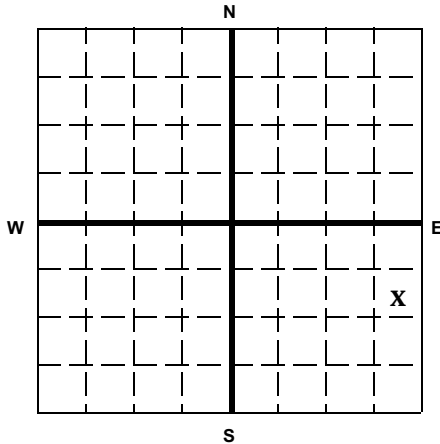
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of Se 1/4 of ne 1/4 of Se 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 930 ft. frm (N/S) N Line of quarter section
and 537 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224936, NSD-027

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	404	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1005						
Sacks of Cement To Be Used (each plug)	94						
Slurry Volume To Be Pumped (cu. ft.)	111						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
404	1005		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$7,035

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

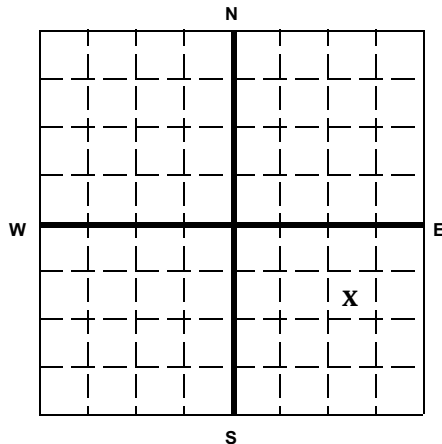
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of NE 1/4 of SE 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 930 ft. from (N/S) N Line of quarter section
and 1061 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224937, NSD-028

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	396	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	755						
Sacks of Cement To Be Used (each plug)	70						
Slurry Volume To Be Pumped (cu. ft.)	83						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
396	755		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$5,285

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

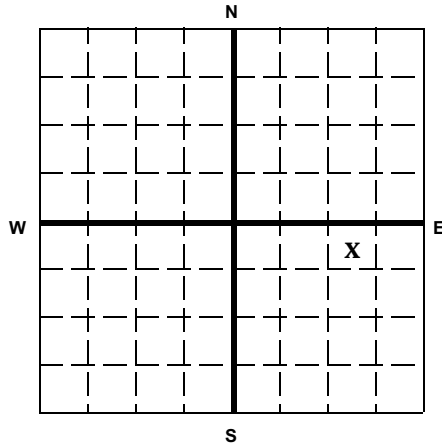
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of nw 1/4 of ne 1/4 of se 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 108 ft. frm (N/S) N Line of quarter section
and 1246 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224938, NSD-029

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	279	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	279						
Sacks of Cement To Be Used (each plug)	75						
Slurry Volume To Be Pumped (cu. ft.)	31						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$1,953

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

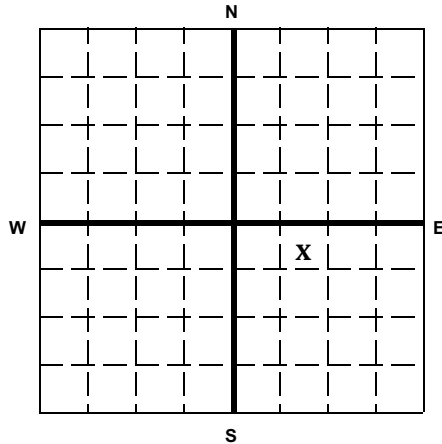
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NE 1/4 of NW 1/4 of SE 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 551 ft. frm (N/S) N Line of quarter section
and 1219 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224848, NSD-030

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	256	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	767						
Sacks of Cement To Be Used (each plug)	72						
Slurry Volume To Be Pumped (cu. ft.)	85						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
256	767		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$5,369

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

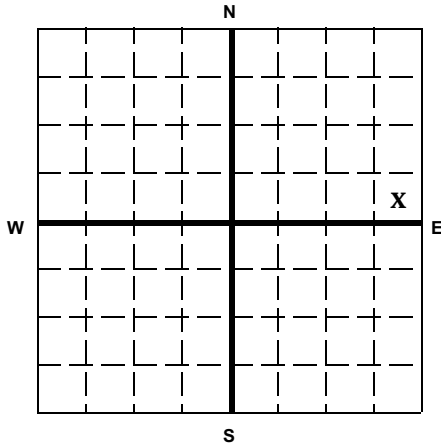
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of Se 1/4 of Se 1/4 of ne 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 136 ft. frm (N/S) S Line of quarter section
and 316 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224155, NSD-031

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	415	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1008						
Sacks of Cement To Be Used (each plug)	94						
Slurry Volume To Be Pumped (cu. ft.)	111						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
415	1008		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$7,056

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

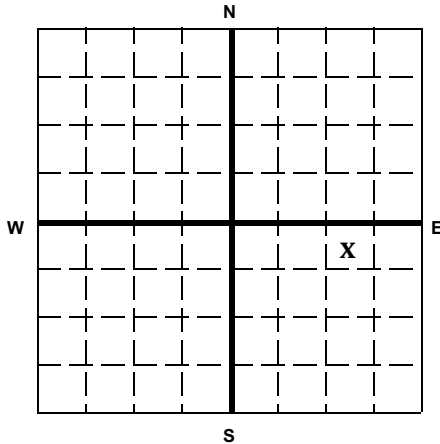
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of NE 1/4 of SE 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 47 ft. frm (N/S) N Line of quarter section
and 708 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224939, NSD-032

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	686	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	686						
Sacks of Cement To Be Used (each plug)	66						
Slurry Volume To Be Pumped (cu. ft.)	76						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$4,802

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

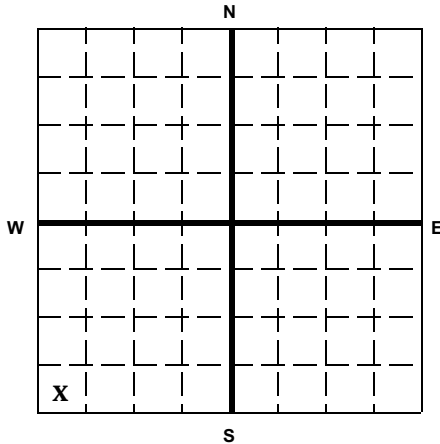
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 80 ft. frm (N/S) S Line of quarter section
and 514 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224846, NSD-033

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	500	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1579						
Sacks of Cement To Be Used (each plug)	147						
Slurry Volume To Be Pumped (cu. ft.)	174						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
500	1579		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$11,053

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

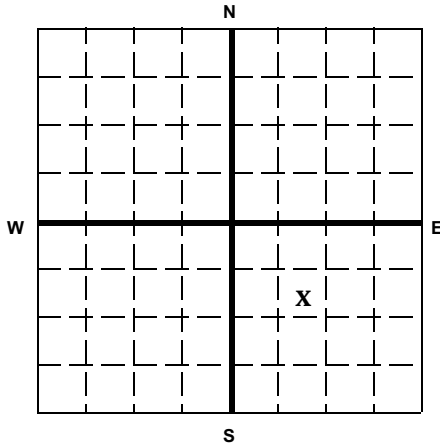
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SE 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1083 ft. frm (N/S) N Line of quarter section
and 966 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224854, NSD-036

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	501	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	793						
Sacks of Cement To Be Used (each plug)	75						
Slurry Volume To Be Pumped (cu. ft.)	88						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
501	793		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$5,551

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

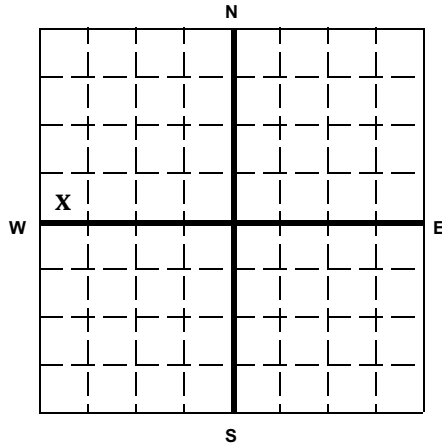
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 257 ft. frm (N/S) S Line of quarter section
and 488 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224059, NSD-037

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	524	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1284						
Sacks of Cement To Be Used (each plug)	120						
Slurry Volume To Be Pumped (cu. ft.)	142						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
524	1284		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,988

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

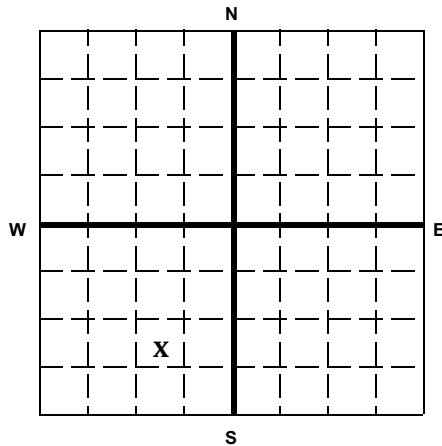
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1055 ft. from (N/S) S Line of quarter section
and 626 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224860, NSD-043

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	628	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	628						
Sacks of Cement To Be Used (each plug)	163						
Slurry Volume To Be Pumped (cu. ft.)	192						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$4,396

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

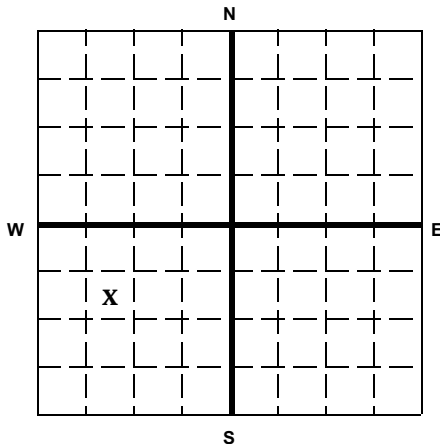
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1176 ft. from (N/S) S Line of quarter section
and 914 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-221521, NSH-001

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
6.625	Unknown	0	702	9.5
4.5	Unknown	0	394	6.125

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	9.5	6.125					
Depth to Bottom of Tubing or Drill Pipe (ft)	702	1096					
Sacks of Cement To Be Used (each plug)	292	68					
Slurry Volume To Be Pumped (cu. ft.)	345	81					
Calculated Top of Plug (ft.)	2	702					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
692	1096		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

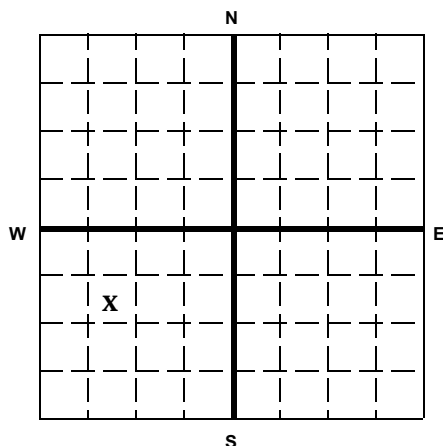
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 993 ft. frm (N/S) N Line of quarter section
and 1046 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-221520, NSH-003

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	1432	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1432						
Sacks of Cement To Be Used (each plug)	134						
Slurry Volume To Be Pumped (cu. ft.)	158						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

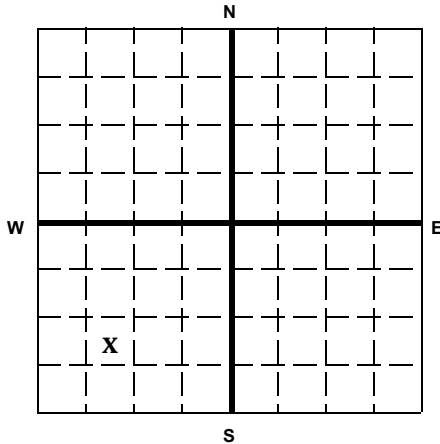
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1216 ft. from (N/S) S Line of quarter section
and 1039 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-221603, NSH-004B

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	1009	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1040						
Sacks of Cement To Be Used (each plug)	97						
Slurry Volume To Be Pumped (cu. ft.)	115						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

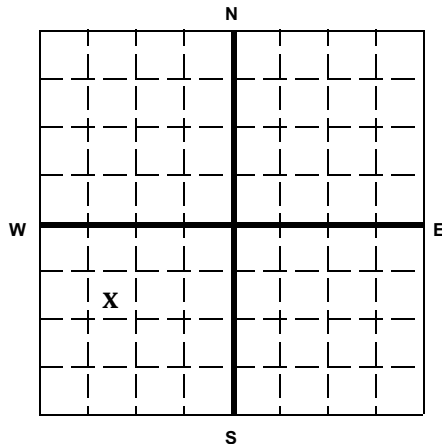
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1304 ft. from (N/S) N Line of quarter section
and 1173 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-221604, NSH-005

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	1019	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1040						
Sacks of Cement To Be Used (each plug)	97						
Slurry Volume To Be Pumped (cu. ft.)	115						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

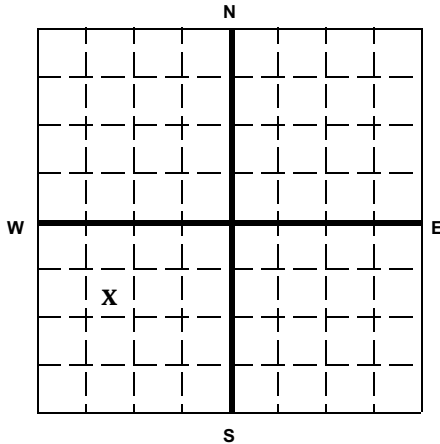
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1143 ft. from (N/S) N Line of quarter section
and 1228 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-221519, NSH-006

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	680	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	684						
Sacks of Cement To Be Used (each plug)	64						
Slurry Volume To Be Pumped (cu. ft.)	76						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Vit Kuhnel, Hydrology Manager

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Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

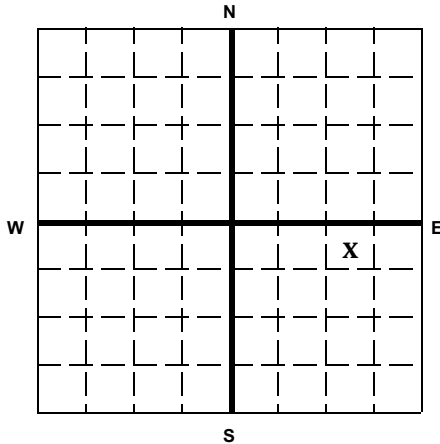
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of NE 1/4 of SE 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 456 ft. frm (N/S) N Line of quarter section
and 578 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-917430, NSH-007

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	469	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	469	640					
Sacks of Cement To Be Used (each plug)	161	49					
Slurry Volume To Be Pumped (cu. ft.)	189	58					
Calculated Top of Plug (ft.)	2	469					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
484	640		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

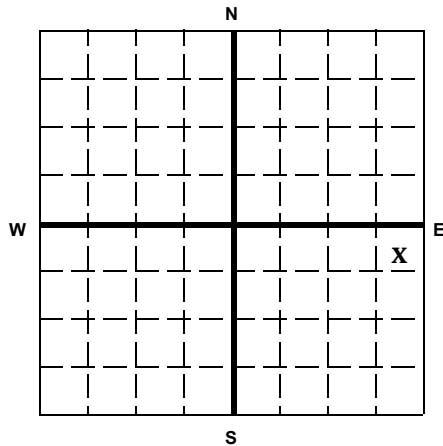
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of ne 1/4 of ne 1/4 of se 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 275 ft. frm (N/S) N Line of quarter section
and 483 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917429, NSH-008

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	840	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	840						
Sacks of Cement To Be Used (each plug)	78						
Slurry Volume To Be Pumped (cu. ft.)	93						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
720	840		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

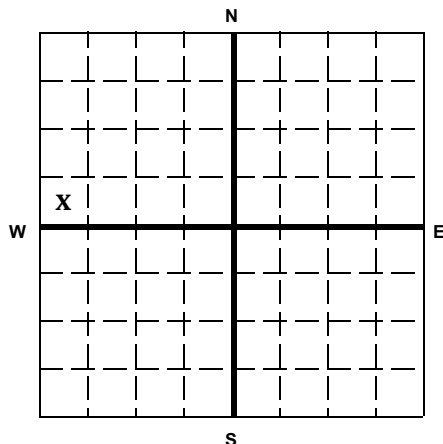
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 203 ft. from (N/S) S Line of quarter section
and 95 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917433, NSH-009

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	995	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	995						
Sacks of Cement To Be Used (each plug)	93						
Slurry Volume To Be Pumped (cu. ft.)	110						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
813	995		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

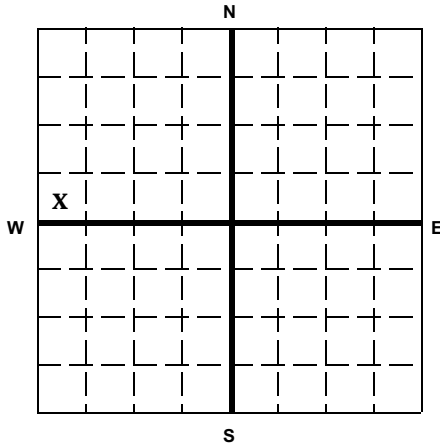
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 135 ft. frm (N/S) S Line of quarter section
and 248 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917434, NSH-010

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	546	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	546	720					
Sacks of Cement To Be Used (each plug)	187	50					
Slurry Volume To Be Pumped (cu. ft.)	221	59					
Calculated Top of Plug (ft.)	2	546					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
546	720		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Vit Kuhnel, Hydrology Manager

Signature

Date Signed



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PLUGGING AND ABANDONMENT PLAN

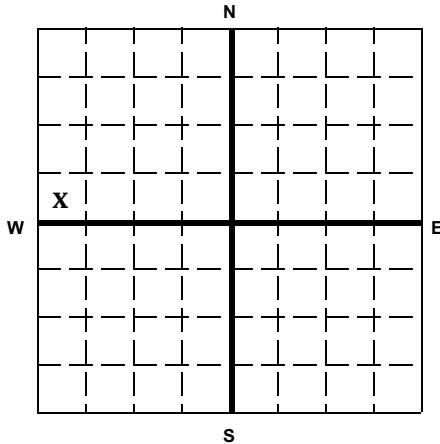
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 190 ft. frm (N/S) S Line of quarter section
and 411 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917435, NSH-012

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	490	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	490						
Sacks of Cement To Be Used (each plug)	46						
Slurry Volume To Be Pumped (cu. ft.)	54						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
430	490		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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PLUGGING AND ABANDONMENT PLAN

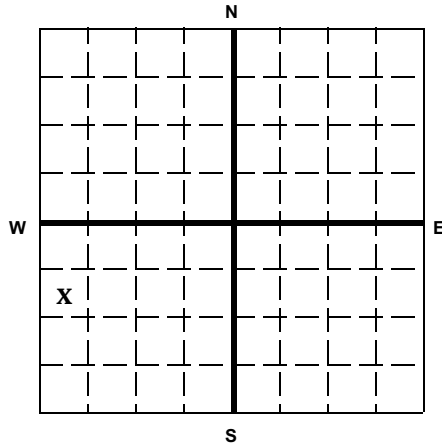
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of SW 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 100 ft. frm (N/S) N Line of quarter section
and 702 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917436, NSH-013

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	646	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	646	1070					
Sacks of Cement To Be Used (each plug)	221	122					
Slurry Volume To Be Pumped (cu. ft.)	261	143					
Calculated Top of Plug (ft.)	2	646					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
646	1070		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

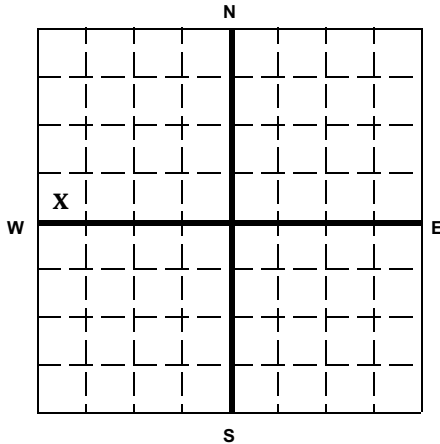
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 221 ft. from (N/S) S Line of quarter section
and 307 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917432, NSH-014B

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	1260	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1260						
Sacks of Cement To Be Used (each plug)	118						
Slurry Volume To Be Pumped (cu. ft.)	139						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
1180	1260		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

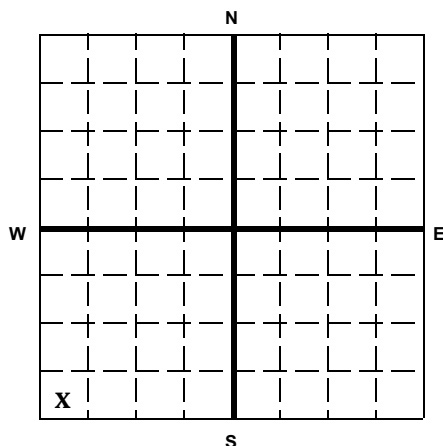
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 436 ft. frm (N/S) S Line of quarter section
and 265 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224029, NSH-015

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	585	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	585	820					
Sacks of Cement To Be Used (each plug)	200	67					
Slurry Volume To Be Pumped (cu. ft.)	237	79					
Calculated Top of Plug (ft.)	2	585					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
585	820		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

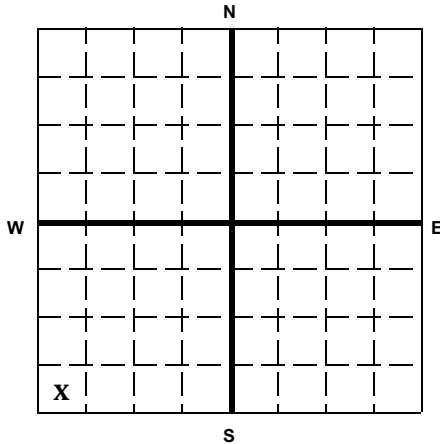
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 483 ft. frm (N/S) S Line of quarter section
and 118 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224030, NSH-016

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	579	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	579	702					
Sacks of Cement To Be Used (each plug)	198	35					
Slurry Volume To Be Pumped (cu. ft.)	234	41					
Calculated Top of Plug (ft.)	2	579					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
579	702		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

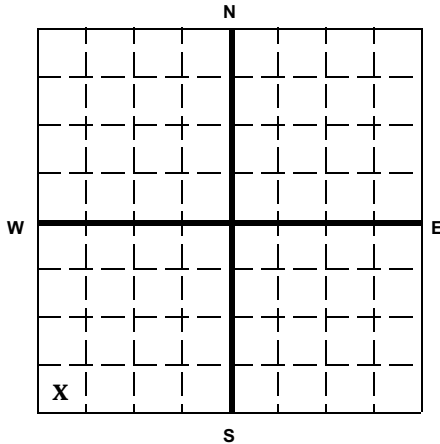
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of SW 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 459 ft. frm (N/S) S Line of quarter section
and 413 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224099, NSH-017

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
6.625	Unknown	0	1181	6.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	6.625						
Depth to Bottom of Tubing or Drill Pipe (ft)	1181						
Sacks of Cement To Be Used (each plug)	239						
Slurry Volume To Be Pumped (cu. ft.)	282						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
940	1181		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

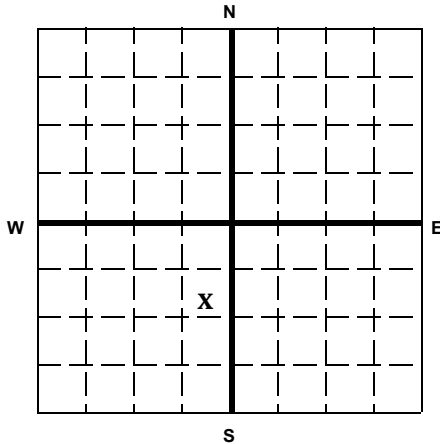
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of Se 1/4 of ne 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 926 ft. frm (N/S) N Line of quarter section
and 208 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224100, NSH-018

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	992	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	992						
Sacks of Cement To Be Used (each plug)	93.2						
Slurry Volume To Be Pumped (cu. ft.)	110						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
610	992		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

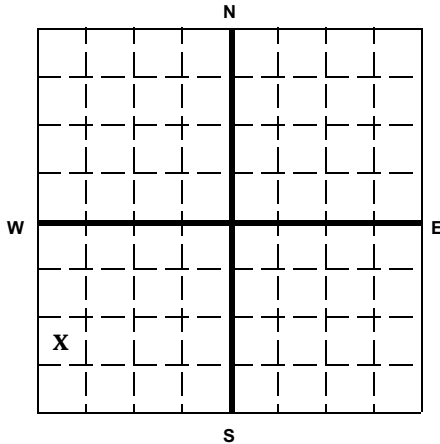
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 734 ft. frm (N/S) S Line of quarter section
and 804 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224031, NSH-019

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	638	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	638	1300					
Sacks of Cement To Be Used (each plug)	219	190					
Slurry Volume To Be Pumped (cu. ft.)	258	224					
Calculated Top of Plug (ft.)	2	638					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
638	~1300		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

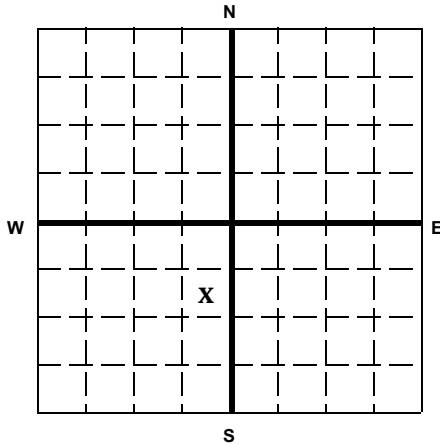
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of Se 1/4 of ne 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1096 ft. frm (N/S) N Line of quarter section
and 208 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224035, NSH-020

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	1582	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1582						
Sacks of Cement To Be Used (each plug)	150						
Slurry Volume To Be Pumped (cu. ft.)	177						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
1060	1202	1241	1402
1472	1595		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

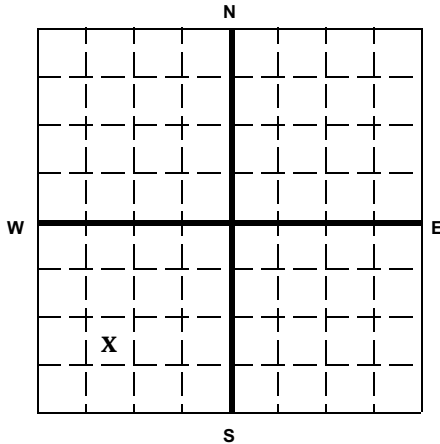
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 806 ft. from (N/S) S Line of quarter section
and 839 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224032, NSH-021C

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	624	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	624	1372					
Sacks of Cement To Be Used (each plug)	214	214					
Slurry Volume To Be Pumped (cu. ft.)	252	253					
Calculated Top of Plug (ft.)	2	624					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
624	~1372		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

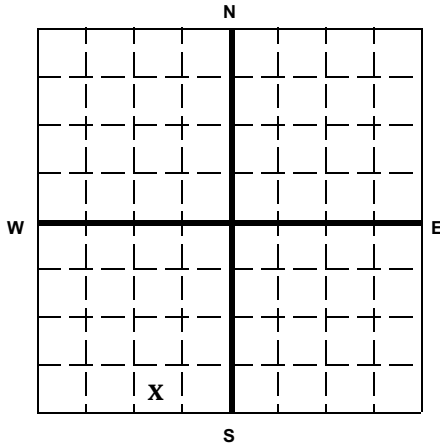
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 354 ft. frm (N/S) S Line of quarter section
and 731 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224097, NSH-022

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
6.625	Unknown	0	1131	6.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	6.625						
Depth to Bottom of Tubing or Drill Pipe (ft)	1131						
Sacks of Cement To Be Used (each plug)	229						
Slurry Volume To Be Pumped (cu. ft.)	270						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
1010	1131		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

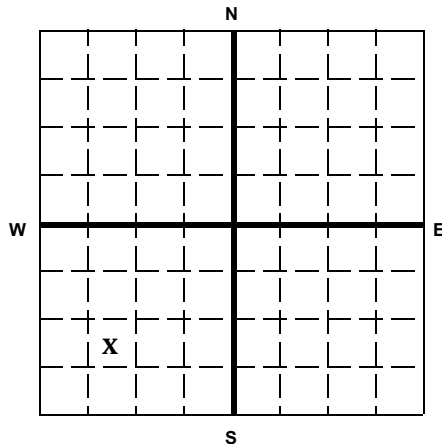
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 893 ft. from (N/S) S Line of quarter section
and 1055 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224034, NSH-023

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	645	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	645	1442					
Sacks of Cement To Be Used (each plug)	221	228					
Slurry Volume To Be Pumped (cu. ft.)	261	270					
Calculated Top of Plug (ft.)	2	645					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
645	1442		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

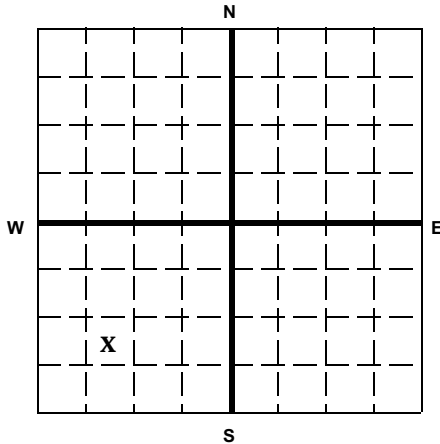
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 858 ft. from (N/S) S Line of quarter section
and 993 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224033, NSH-024

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	625	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	625	1440					
Sacks of Cement To Be Used (each plug)	214	234					
Slurry Volume To Be Pumped (cu. ft.)	253	276					
Calculated Top of Plug (ft.)	2	625					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
625	1440		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

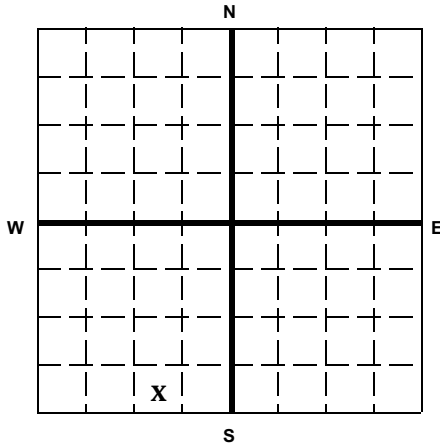
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 993 ft. frm (N/S) S Line of quarter section
and 947 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224158, NSH-025

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	1551	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1551						
Sacks of Cement To Be Used (each plug)	145						
Slurry Volume To Be Pumped (cu. ft.)	171						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
1480	1551		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

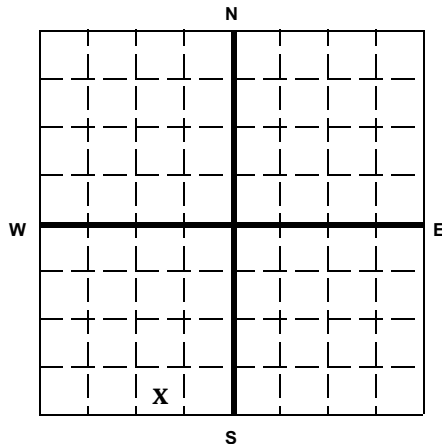
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 213 ft. frm (N/S) S Line of quarter section
and 731 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224036, NSH-026

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8.625	Unknown	0	625	8.625

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	8.625	7.875					
Depth to Bottom of Tubing or Drill Pipe (ft)	625	900					
Sacks of Cement To Be Used (each plug)	214	79					
Slurry Volume To Be Pumped (cu. ft.)	253	93					
Calculated Top of Plug (ft.)	2	625					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6					
Type Cement or Other Material (Class III)	V	V					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
625	900		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

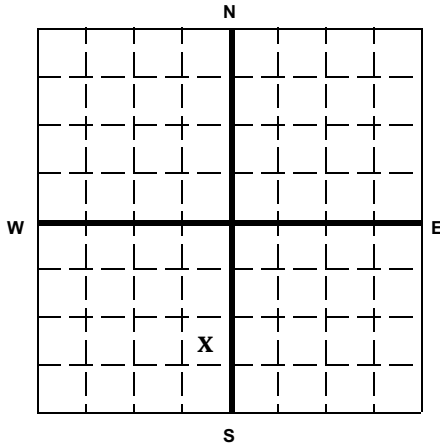
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NE 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1254 ft. from (N/S) S Line of quarter section
and 225 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917777, NSH-029

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
2.375	Unknown	0	709	2.375

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	2.375						
Depth to Bottom of Tubing or Drill Pipe (ft)	709						
Sacks of Cement To Be Used (each plug)	18.6						
Slurry Volume To Be Pumped (cu. ft.)	22						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
604	709		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

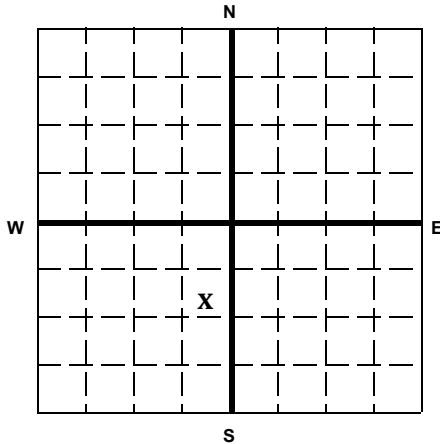
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 631 ft. frm (N/S) N Line of quarter section
and 212 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-917775, NSH-030

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
2.375	Unknown	0	706	2.375

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	2.375						
Depth to Bottom of Tubing or Drill Pipe (ft)	706						
Sacks of Cement To Be Used (each plug)	19.5						
Slurry Volume To Be Pumped (cu. ft.)	23						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
600	706		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

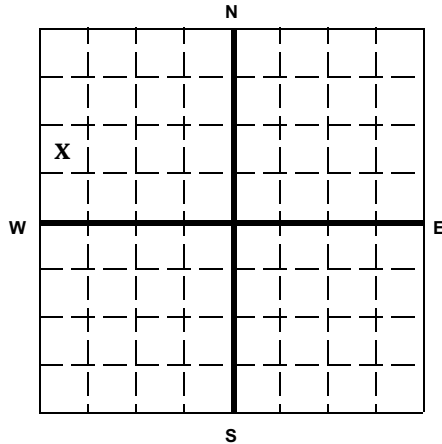
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of NW 1/4 of SW 1/4 of NW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 627 ft. frm (N/S) S Line of quarter section
and 117 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917782, NSH-031

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
2.375	Unknown	0	805	2.375

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	2.375						
Depth to Bottom of Tubing or Drill Pipe (ft)	805						
Sacks of Cement To Be Used (each plug)	21						
Slurry Volume To Be Pumped (cu. ft.)	25						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
721	805		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

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Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

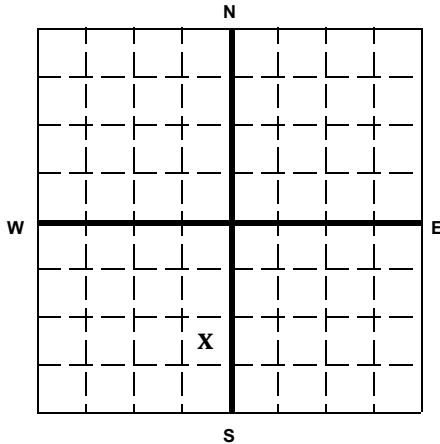
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of Ne 1/4 of Se 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 438 ft. frm (N/S) S Line of quarter section
and 194 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-917783, NSH-032

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
2.375	Unknown	0	804	2.375

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	2.375						
Depth to Bottom of Tubing or Drill Pipe (ft)	804						
Sacks of Cement To Be Used (each plug)	21						
Slurry Volume To Be Pumped (cu. ft.)	25						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
720	804		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

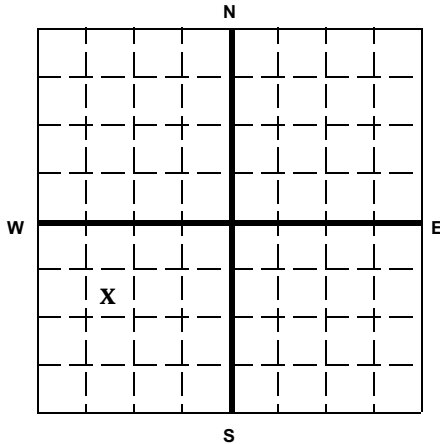
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1170 ft. from (N/S) N Line of quarter section
and 709 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224933, NSM-001

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
3.5	Unknown	0	590	3.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	2						
Depth to Bottom of Tubing or Drill Pipe (ft)	1150						
Sacks of Cement To Be Used (each plug)	65						
Slurry Volume To Be Pumped (cu. ft.)	77						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
590	1150		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,050

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

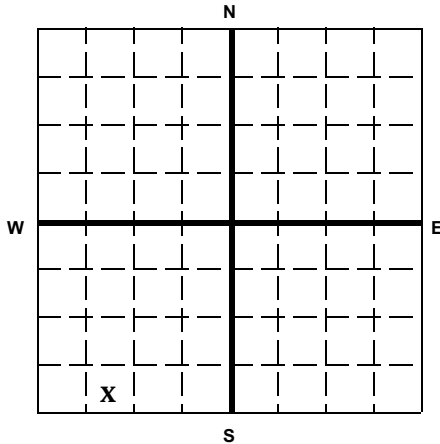
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 56 ft. frm (N/S) S Line of quarter section
and 782 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224934, NSM-002

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	507	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1000						
Sacks of Cement To Be Used (each plug)	97						
Slurry Volume To Be Pumped (cu. ft.)	110						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
507	1000		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$7,000

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

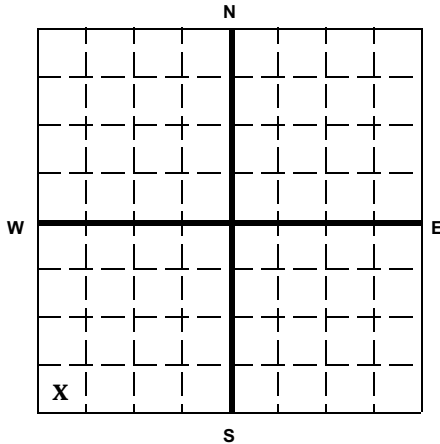
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of SW 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 259 ft. frm (N/S) S Line of quarter section
and 354 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224935, NSM-003

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	608	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1028						
Sacks of Cement To Be Used (each plug)	97						
Slurry Volume To Be Pumped (cu. ft.)	114						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
608	1028		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$7,196

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

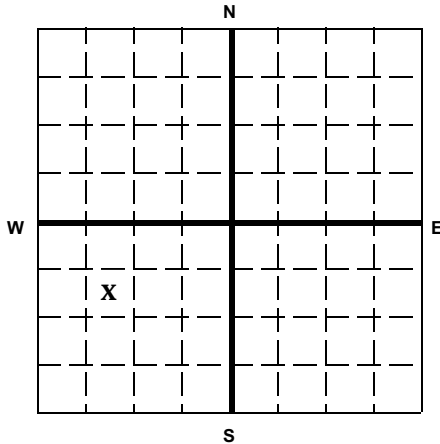
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location: 1330 ft. from (N/S) N Line of quarter section
and 914 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224842, NSM-004

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	596	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4						
Depth to Bottom of Tubing or Drill Pipe (ft)	1115						
Sacks of Cement To Be Used (each plug)	65						
Slurry Volume To Be Pumped (cu. ft.)	77						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
596	1115		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$7,805

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

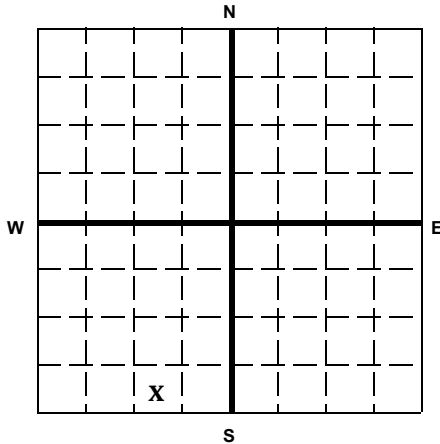
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 419 ft. frm (N/S) S Line of quarter section
and 1088 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224841, NSM-005A

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
5	Unknown	0	593	5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1172						
Sacks of Cement To Be Used (each plug)	164						
Slurry Volume To Be Pumped (cu. ft.)	193						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
593	1172		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,204

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

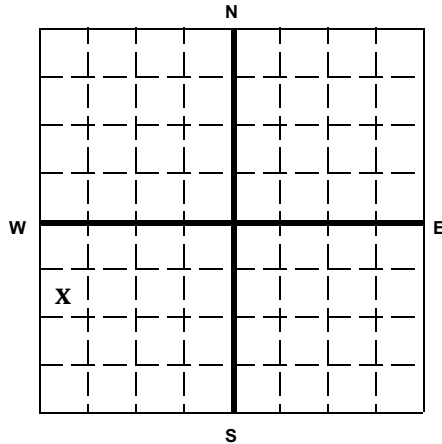
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1304 ft. from (N/S) N Line of quarter section
and 577 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224840, NSM-006

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	529	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1217						
Sacks of Cement To Be Used (each plug)	114						
Slurry Volume To Be Pumped (cu. ft.)	134						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
529	1217		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,519

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

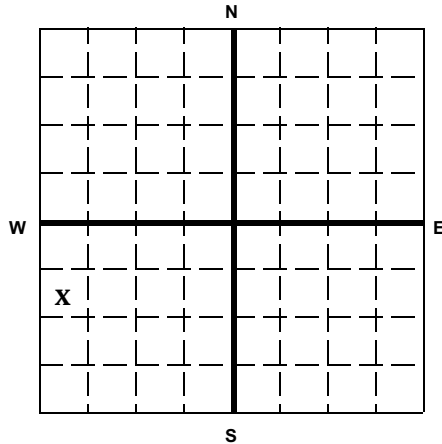
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of NW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 849 ft. frm (N/S) N Line of quarter section
and 632 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-223835, NSM-007

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	600	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1168						
Sacks of Cement To Be Used (each plug)	109						
Slurry Volume To Be Pumped (cu. ft.)	129						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
600	1168		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,176

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

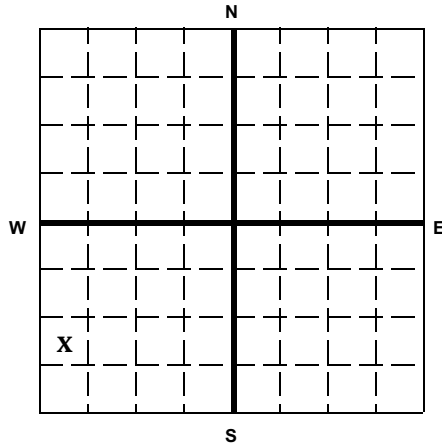
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

☐ 1/4 of NW 1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 695 ft. frm (N/S) S Line of quarter section
and 750 ft. from (E/W) W Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number 55-224844, NSM-008

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
5	Unknown	0	546	5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1273						
Sacks of Cement To Be Used (each plug)	178						
Slurry Volume To Be Pumped (cu. ft.)	210						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
546	1273		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$8,911

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

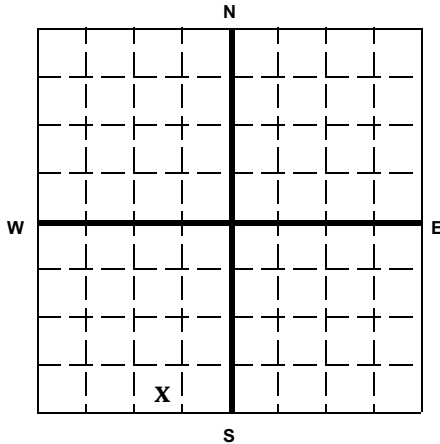
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 10 ft. frm (N/S) S Line of quarter section
and 949 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224845, NSM-009

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
5	Unknown	0	586	5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5						
Depth to Bottom of Tubing or Drill Pipe (ft)	1349						
Sacks of Cement To Be Used (each plug)	189						
Slurry Volume To Be Pumped (cu. ft.)	223						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
586	1349		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$9,443

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

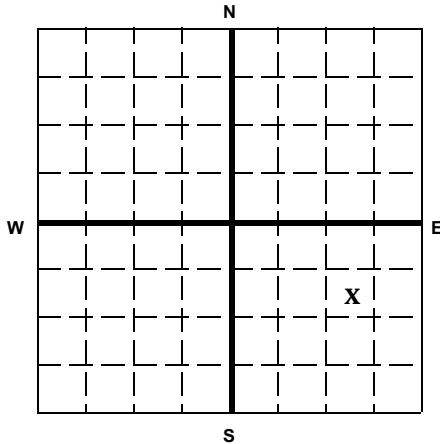
Name and Address of Facility

EXCELSIOR MINING CORP
GUNNISON PROJECT

Name and Address of Owner/Operator

EXCELSIOR MINING CORP
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

AZ

County

Cochise

Permit Number

TBD

Surface Location Description

1/4 of SW 1/4 of ne 1/4 of Se 1/4 of Section 36 Township 15S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 966 ft. frm (N/S) N Line of quarter section
and 551 ft. from (E/W) E Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☒ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Lease Name

Well Number

55-224847, NSM-013

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
4.5	Unknown	0	404	4.5

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4.5						
Depth to Bottom of Tubing or Drill Pipe (ft)	953						
Sacks of Cement To Be Used (each plug)	89						
Slurry Volume To Be Pumped (cu. ft.)	105						
Calculated Top of Plug (ft.)	2						
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6						
Type Cement or Other Material (Class III)	V						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
404	953		

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$6,671

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Vit Kuhnel, Hydrology Manager

Signature

Date Signed